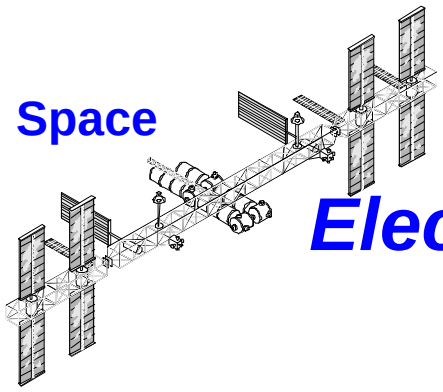

17th DASC

Space

Air

Electronics in Motion

Ground

and Automotive Electronics

IEEE/AIAA Digital Avionics Systems Conference

31 October – 6 November 1998 – Seattle, Washington Area

A quiet revolution is brewing in transportation and defense. It is not the latest aerodynamic, firepower or styling advance. It is the unparalleled growth, importance and future dominance of electronically based vehicle systems—*"Electronics in Motion"*. Are you aware of the global trends, technologies, disciplines, tools and designs that will drive your company's product line and determine your future career? The world's leading conference on electronics in aerospace vehicles, the DASC, is providing the first ever, cross-industry, customer-driven conference to address these needs…*"The Only Game in Town"* whether you're a presenter, attendee, participating company or exhibitor.

Previously distinct defense, commercial air transport, space systems and automotive worlds have been changed forever by technology and worldwide competition. Increasingly sophisticated consumers demand more value, entertainment systems and more connectivity. Electronic systems today account for more than fifty percent of the development costs on both defense and commercial aircraft (nearly twice the cost of structures!), as well as significant and growing portions of automotive design. Inefficiencies in the airspace system annually waste millions of dollars, driving initiatives for better air traffic management (CNS/ATM). Similar highway capacity and safety issues underscore the Department of Transportation's funding of the Intelligent Transportation System (ITS). At the same time, military organizations are taking major steps to lower costs and increase total battlefield system coordination and interoperability. The common aspect of these 'megatrends' is electronically based systems with increased functionality and revenues, and decreasing costs. Driving these improvements are common sensors, such as GPS, increasing use of common commercial parts (COTS), and systems and software engineering to manage the complexity and assure customer needs are met.

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ABSTRACTS DUE: 1/30/98

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Key Topics to be Addressed by the 17th DASC

CUSTOMER NEEDS and EXPECTATIONS

Customer Business Environment (Airline, Automotive, DoD and Space)
Operational Environment, Infrastructure Constraints and Requirements (Airspace, Defense, Roadways)
Governmental, Regulatory and Legal Issues (Including Transportation and Defense Policies)
Safety & Reliability Requirements
Human Interface (Flight, Cabin, Maintenance Crews and Passengers (Car and Airplane))
World Geopolitical and Competition Trends / Economic Imperatives

MAJOR SYSTEMS and DESIGNS

Traffic Management and Control Systems (*Ground:* The Intelligent Transportation System (ITS))
(*Airspace:* Air Traffic Management (CNS/ATM) and Free Flight; Defense System)
Vehicle Management Systems (Flight Management, Car Management)
Control Systems (Engine, Attitude, Braking Control; Drive-By-Wire/Fly-By-Wire, Active Suspension)
(Power and Thermal Control Systems; Electrical/Hydraulic Power, Environment Control)
Passenger Systems (Inflight Entertainment (IFE) and Cabin Management; Automotive)
Safety Systems (TCAS, Weather/Windshear, Ground Collision Avoidance, Flight Recorders; Airbags)
Navigation Systems (Inertial, Radio, Air Data, Satellite (GPS/GLONASS/WAAS))
Information Systems (Maintenance Management, On-Board Databases)

DEVELOPMENT PROCESSES, METHODS, STANDARDS and TOOLS

Systems Engineering (Requirements Analysis, Architecture Definition and System Integration)
Software Engineering (Architectures, Structures, Object Oriented, Languages, Operating Systems)
Hardware Engineering (Design, Components, Packaging, Testability, Manufacturability, Qualification)
Simulation and Analysis Tools and Techniques
Testing Methods and Facilities (Verification and Validation of Systems and Software)
Diagnostics and Fault Detection Methods
Electromagnetic Methods (ElectroMagnetic Interference (EMI), Interference Countermeasures, HIRF)

TECHNOLOGIES: SENSORS, DISPLAYS, COMPUTING, COMMUNICATIONS and NETWORKING

Sensors and Signal Processing (RF, Electro-Optical, Infrared, Radar, LIDAR)
Operator Interface Technologies (Head-Up Displays, Display Technology, Voice Control)
Computing (Platforms, Processors, Memory/Server Technology)
Communication (Voice, Data, Satellite, Cellular)
Networks (Data Buses, Servers, Protocols)

Technical paper and tutorial authors are invited to submit abstracts of 300 words and include a short author(s) biography with mailing and email addresses, telephone and facsimile numbers. Abstracts are due January 30, 1998 and Final papers are due August 1, 1998.
SEND ABSTRACTS TO **(Electronic Copy Preferred – Steve_Runo@Teledyne.com):**
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