

European Reliability Research Roadmap Workshop

Challenges and Future Directions

Wednesday 15th May 2019, University of Bradford

We are witnessing remarkable transformations across the transportation industries driven by technology advancements and proliferation across the systems scales and boundaries. Technologies to support increased levels of autonomy as well as user centric service innovation are already commonplace in vehicle architectures. From a product development organisation viewpoint, handling the explosion of complexity induced by the pervasive heterogeneous nature of systems is a significant challenge, further compounded by the pressure to develop systems in an environmental and cost conscious manner, with uncompromised or improved levels of safety and dependability demonstrated against diverse, global usage scenarios. While technology development has been the prime focus of research and innovation effort, we have seen only limited advances on methodologies and methods to address the reliability and resilience challenges emerging with increasingly complex systems and environments.

This workshop will bring together industry and academia thought leaders to explore jointly the key reliability modelling issues arising from these developments, identify the gaps in knowledge and methods, and propose directions for fundamental and applied research activities. The workshop proposes a highly interactive format, combining panel sessions with small group round table discussions, and agenda setting activities.

The outcomes from the workshop will be compiled into a published report* outlining outstanding challenges and a prioritised roadmap for reliability research and methodology development.

*The results of the analysis will be anonymized and comments will not be attributable to individuals or organisations. A report targeted at industry and academia will only be published after review by workshop participants.

Co-hosted by



Prof. Felician Campean
Automotive Reliability Engineering
Director Automotive Research Centre



Prof. David Delaux

Head, Valeo Corporate Reliability
Past President EU Reliability
Environmental Commission



Dr. Sanjiv SharmaAirbus Expert for Modelling &
Simulation methods and tools

Event sponsored by







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Outline Programme

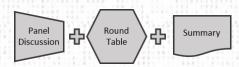
09.00-10.00	Welcome,	Opening address and	d Agenda setting keynotes
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10.00-12.00 Theme 1: **Technology Development & Innovation**What are the reliability challenges stemming from the accelerated introduction of new technologies?

Panel Discussion Round Table Summary

12.00-13.00 Networking lunch

13.00-14.50 Theme 2: Right First Time Through Design
What reliability methodologies and methods are needed to better support Product Development?



14.50-15.10 Networking coffee break

15.10-17.00 Theme 3: Intelligent Vehicle Health Management
What challenges need to be overcome for Machine
Learning and AI based reliability to consistently
underpin effective systems lifecycle management?



17.00-18.00 Summary, Roadmap & Action Planning

If you are interested in attending or for further enquiries please contact Ms. Yvonne Western by email (Y.Western@Bradford.ac.uk) or telephone +44-1274-235401

https://www.brad.ac.uk/automotive-research-centre/reliability-workshop-may19/

Collaborative Partners

- SAFI Consortium partners Airbus, Renault, PSA, IAV and the University of Bradford
- CEEES Confederation of European Environmental Engineering Societies
- SIA Société des Ingénieurs de L'Automobile

