



Final workshop Programme
ONERA – Toulouse, France
26th August 2019

From 13h30	Reception of External Experts and participants (ONERA access)	
Opening		
13h40-13h50	Welcome	Shinji Suzuki <i>University of Tokyo</i>
13h50-14h00	Welcome address	Yoko Watanabe - <i>ONERA</i> Philippe Bidaud Scientific Director of Information processing and systems - <i>ONERA</i>
14h00-14h20	Address from EU and Japan funding agencies	Pablo Pérez-Illana Policy & Programme Officer DG Research & Innovation, EC Nobutaka Takeo Director General, NEDO representative office in Europe
14h20-14h40	VISION project overview	Yoko WATANABE - <i>ONERA</i>
Session 1: FDD/FTC control designs		
14h40-15h10	JAXA MuPAL-alpha experimental aircraft	Masayuki Sato - <i>JAXA</i>
15h10-15h40	FDD/FTC designs based on sliding mode observer/controller	Christopher Edwards <i>University of Exeter</i>
15h40-16h10	Indirect adaptive FDD/FTC controller	Gilles Ferreres - <i>ONERA</i> Georges Hardier - <i>ONERA</i>
16h10-16h30	Coffee break	
16h30-17h00	Sensor based nonlinear and adaptative FDD/FTC designs	Qiping Chu <i>Delft University of Technology</i>
17h00-17h30	Structured H-infinity controller	Andres Marcos <i>University of Bristol</i>
17h30-18h00	Simple adaptive controller	Shinji Suzuki <i>University of Tokyo</i>
20h00	Reception dinner	

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Session 2: Onboard visual sensing technology		
09h00-09h20	Vision-based control surface monitoring	Sho Nagai - <i>RICOH</i>
09h20-09h45	Long-range stereo-vision system for final approach navigation-aid	Sho Nagai - <i>RICOH</i>
09h45-10h00	Automotive and recent R&D activity at RICOH	Issei Abe <i>Applied Optics System Research Center - RICOH Co. LTd.</i>
10h00-10h30	Monocular vision system for runway feature detection	Antal Hiba - <i>SZTAKI</i>
10h30-11h00	3D visual-sensing technology	Csaba Benedek <i>Pazmany Peter Catholic University</i>
11h00-11h45	Visit ONERA Ressac UAV Laboratory and presentation of USOL K50 platform	Alexandre Amiez - <i>ONERA</i> Augustin Manecy- <i>ONERA</i>
11h50-13h10	Lunch	
Session 3: Vision-based navigation & guidance		
13h10-13h40	Vision/GNSS integrated navigation system for aircraft final approach	Yoko Watanabe - <i>ONERA</i>
13h40-14h10	2 out-of 3 voting logic for sensor fault detection	Peter Bauer - <i>SZTAKI</i>
14h10-14h40	AIRBUS ATTOL (Automatic Taxi, Take-off and Landing) project	Sebastian Giuliano - <i>AIRBUS</i>
14h40-15h10	Vision-based obstacle detection & avoidance	Shinji Suzuki <i>University of Tokyo</i>
15h10-15h25	Coffee break	
15h25-15h55	Challenges for Certification of new flight control systems	Cedrik Harang <i>European Aviation Safety Agency</i>
15h55-16h15	Expectation from Airlines for new aircraft systems aimed for future safety enhancement	Yoshinori Odagri <i>Strategic Research Institute, all Nippon Airways</i>
Concluding session		
16h15-16h30	Conclusion & perspectives	Shinji Suzuki <i>University of Tokyo</i>
16h30-17h00	Discussion with External Experts	All