GENERAL INFORMATION

Name: **Kamila KUSTRON**

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PROFESSIONAL EXPERIENCE

from 11/2001 till now — **Warsaw University of Technology**
Faculty of Power and Aeronautical Engineering
Institute of Aeronautics and Applied Mechanics

- Assistant Professor at the Aircraft Design Division
- Head of Research Group in Design & Maintenance of Aircraft
- Senior Researcher & Lecturer
- Courses for students: *Aircraft Maintenance, Aircraft Maintenance Management* and *Aviation Regulations*

03/2014-09/2014	6-mouth study visit in **Engineering Institute at Los Alamos National Laboratory (LANL)** to observe and/or participate in various educational activities and research	**Los Alamos, NM USA**
09/2015-10/2015 and 02/2016	study visits in the **Structural Health Monitoring Laboratory in the Department of Structural Engineering at the University of California San Diego** to observe and/or participate in various educational activities and research	**San Diego, CA USA**
2015	**Embry-Riddle Aeronautical University,** Aircraft Accident Investigation, MOOC Certificate of Completion	**Daytona Beach, Florida, USA**
12/2017-07/2018	**Visiting Senior Research Fellow UNSW**	**Sydney, Australia**

CURRENT RESEARCH INTEREST

AERONAUTICAL ENGINEERING:

- *Aviation Law (International, Regional, National), Regulations, Hard Law, Soft Law,*
- *Aviation Sustainability, Sustainable Airframe Design, Airworthiness Management*
- *Smart Inspectability, Smart Structures, Smart Materials*
- *Research & Development in Structural Health Management of Composite Airframe; Airframe Resistance to Impact of Foreign Objects (i.e. bird-strike, lighting-strike, ice-hail, debris)*
- *Artificial Intelligence, hybrid Rough Sets*
- *Research & Development in the Safety and Sustainability Management in Civil Aviation*
- *Human Factor (Elimination and/or Mitigation)*
- *Uncertainty Assessment*
- Using professional software (ABAQUS, MATLAB, LabVIEW)

BRIEFLY LIST OF LAST PUBLICATIONS RELATED TO SUSTAINABLE AIRFRAME DESIGN

- K. Kustron, (2022), *A New Method in Conceptual Design of the SHM Airframe Using Rough Sets*, in Structural Health Monitoring 2021, Proceedings of the Thirteenth International Workshop on Structural Health Monitoring (IWSHM), Enabling Next-generation SHM for Cyber-Physical Systems, p.1012-1020, *Edited by* Farhangdoust S, Guemes A, Chang F-C, 978-1-60595-687-9, (2023). https://doi.org/10.12783/shm2021/36354.
- K. Kustron K., V. Horak, R. Doubrava, and Z. J. Goraj (2019), *New hail impact simulation models on composite laminated wing leading edge*, Aircraft Engineering and Aerospace Technology, Vol. 91 No. 3, pp. 457-465. , https://doi.org/10.1108/AEAT-02-2018-0089
- Z. Goraj, K. Kustron, (2018), *Review of Current Research Trends in Bird Strike and Hail Impact Simulations on Wing Leading Edge*, Aircraft Engineering and Aerospace Technology, vol. 90, no 4, p. 602-612. https://doi.org/10.1108/AEAT-02-2017-0053
- M. Kujawinska, K. Kustron, K. Siedlecki, M. Malesa, (2017), *Investigations of high power laser beam interaction with composite materials by means of digital image correlation and thermography*, Proc. SPIE 10436, High-Power Lasers: Technology and Systems, Platforms, and Effects, 104360H (2017); https://doi.org/10.1117/12.2281119