

Djamila Aouada | Curriculum Vitae

Identification

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Date of birth: November 10, 1982

Citizenship: Luxembourgish, Algerian, and Russian;

Languages: Arabic, English, French, Russian (Fluent);
German, Luxembourgish (Basic)

Relevant links: [Webpage](#), [RG webpage](#), [ORCID](#), [ResearchGate](#)

Other links : [GoogleScholar](#), [LinkedIn](#), [Twitter](#)

Research Interests

General: Computer Vision, Image Processing, Machine Learning, Artificial Intelligence

Focus: 3D Shape Modelling, Multi-modal Sensing, Geometric Deep Learning

Applications: Face Recognition, DeepFake Detection, Human Body Modelling, Space Situational Awareness

Employment History

University of Luxembourg, Interdisciplinary Centre for Security, Reliability and Trust (SnT)	Luxembourg, Luxembourg
<i>Acting Vice Director of the SnT Centre</i>	06/2024 – present
<i>Head of the Computer Vision, Imaging and Machine Intelligence (CVI²) Research Group</i>	01/2020 – present
<i>Senior Research Scientist / Assistant Professor</i>	07/2020 – present
<i>Head of the SnT Space Zero-Gravity Lab</i>	07/2021 – present
<i>Head of the SnT Computer Vision Lab</i>	03/2012 – present
<i>Research Scientist</i>	07/2013 – 07/2020
<i>Head of the Computer Vision team within the Signal Processing and Communications (SigCom) Research Group of Prof. Björn Ottersten</i>	07/2013 – 12/2019
<i>Research Associate</i>	11/2009 – 06/2013
Université de Bourgogne, Le2i	Le Creusot, France
<i>Lecturer</i>	02/2012 – 02/2020
Mitsubishi Electric Research Laboratories (MERL)	Cambridge, MA, USA
<i>Consultant</i>	10/2014 – 03/2015
University of Chicago, Dept. Of Radiology	Chicago, IL, USA
<i>Postdoctoral Fellow</i>	06/2009 – 08/2009
North Carolina State University, ECE Dept.	Raleigh, NC, USA
<i>Research Assistant</i>	08/2005 – 05/2009
Alcatel-Lucent Bell Laboratories	Murray Hill, NJ, USA
<i>Consultant</i>	07/2008 – 10/2008
North Carolina State University, ECE Dept.	Raleigh, NC, USA
<i>Teaching Assistant</i>	01/2008 – 05/2008
Los Alamos National Laboratory	Los Alamos, NM, USA
<i>Research Intern</i>	06/2007 – 08/2007
Schlumberger, Oil-field Services	Baku, Azerbaijan
<i>Field Engineer</i>	08/2004 – 09/2004
Centre de Développement des Technologies Avancées (CDTA)	Algiers, Algeria
<i>Research Intern</i>	07/2003 – 08/2003

Education

North Carolina State University	Raleigh, NC, USA
<i>PhD, Electrical Engineering, Computer Vision</i>	08/2005 – 05/2009
<i>Thesis: Geometric, Statistical and Topological Modeling of Intrinsic Data Manifolds: Application to 3D Shapes</i>	
<i>Supervisor: Prof. Hamid Krim, IEEE Fellow</i>	
Ecole Nationale Polytechnique	Algiers, Algeria
<i>Diplôme d'Ingénieur d'État (State Engineering Degree), Electronics, Signal Processing</i>	09/2000 – 06/2005
<i>Thesis: Exploitation of Blind Techniques in MIMO-OFDM Communication Systems</i>	
<i>Supervisor: Prof. Adel Belouchrani, IEEE Fellow</i>	

Managerial Responsibilities

2020 – Present: Founder and head of the CVI2 Department at SnT, and Member of the SnT Management Team at the University of Luxembourg.

2024 - present: President of the evaluation committee of the French CyberPEPR program (Programme et équipements prioritaires de recherche pour la cybersécurité), covering 10 projects for a budget of **65M€**.

2024 – Present: Board Director at the Asteroid Foundation

2023 – Present: Member of the Advisory Board of the Doctoral training center in Accountable, Responsible and Transparent AI (ART-AI) at the University of Bath, United Kingdom.

2023 – Present: Member of the Doctoral Program Committee in Computer Science and Computer Engineering (DP CSCE) at the University of Luxembourg.

2023 – Present: Member of the Algerian AI Board, Appointed by the Algerian Government

2023 – Present: Member of the Scientific Council of the National School of Artificial Intelligence, Ecole Nationale Supérieure d'Intelligence Artificielle (ENSIA), Algiers, Algeria.

May 2023: Member of the reviewing committee for faculty selection at INSA Rouen, France.

Professional Service and Editorial Responsibilities

2025: Area Chair at the International Conference on 3D Vision (3DV'25), 25-28 Mar. 2025.

2024: Area Chair at the European Conference on Computer Vision (ECCV'24), 29 Sep. – 4. Oct. 2024.

2024 - 2025: Associate Editor IEEE Transactions on Circuits and Systems for Video Technology.

2023: Program Chair at the IEEE/EURASIP European Workshop on Visual Information Processing (EUVIP'23), 11-14 Sep. 2023.

2022 – 2024: Expert evaluator – SMASH Marie Skłodowska Curie COFUND action.

2023: Evaluation Committee Member - Agence Nationale de la Recherche (ANR) – Grands Programmes d'Investissement de l'Etat - Cybersecurity.

2021 – 2022: Expert evaluator – Swiss National Science Foundation (SNSF).

2022: General co-Chair of the 5th International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R'22), 1-2 Dec. 2023.

2022: Area Chair at the International Conference on 3D Vision (3DV'22), 12-15 Sep., 2022.

2021: Program Chair at the International Conference on 3D Vision (3DV'21), 1-3 Dec., 2021.

2020: Area Chair at the International Conference on 3D Vision (3DV'20), 25-28 Nov., 2020.

2014 – 2016: Chair of the IEEE Benelux Women in Engineering Affinity Group.

2022 – Present: Associate Editor - IET Computer Vision

2020 – Present: Initiator and General Chair of the SHARP Workshops and Challenges – Shape Recovery from Partial textured 3D Scans.

Four editions have taken place. Each time in conjunction with top Computer Vision conferences (ECCV'20, CVPR'21, CVPR'22, ICCV'23). In addition to promoting research topics in 3D modelling, with a recent emphasis on 3D reverse engineering, we also prepare and share openly large annotated 3D datasets with the research community, namely, 1) 3DBodyTex Dataset – Textured 3D Body Dataset, with 3 different versions, 2) DermSynth3D – Synthetic images of skin lesions, 3) CC3D Dataset – CAD Construction in 3D, for pairs of CAD models and their scans, and 4) 3DObjectTex Dataset – Textured generic 3D Object dataset. All shared datasets are available here.

2021 – Present: Initiator and General Chair of the SPARK Challenges – SPACecraft Recognition leveraging Knowledge of Space Environment.

2021 – 2022: Expert Evaluator – Horizon European Innovation Council (EIC) - Pathfinder

2018 – 2020: Expert Evaluator – Horizon 2020 FET-OPEN

Awards and Distinctions

2018: Senior Member of the Institute of Electrical and Electronics Engineers (IEEE).

2017: Best Paper Award, IEEE 2017 Fourth International Conference on Image Information Processing (ICIIP), under the Computer Vision Track.

2017: 2nd Place Best Paper Award, IEEE International Conference on Image Processing (ICIP). Among 2400 submitted papers.

2015: Best Paper Award, IEEE Computer Vision and Pattern Recognition Workshop (CVPRW) on Multi-Sensor Fusion and Dynamic Scene Understanding (MSF).

2011: Student Best Paper Award at IEEE International Symposium on Image and Signal Processing and Analysis (ISPA).

2004: One of five students chosen nationwide for an international internship at a major oil company.

2003-2005: 2nd rank in Electronics at the École Nationale Polytechnique, the top engineering school in Algeria.

2000: Best student in the National Baccalaureate Exam over the Province of Blida, Algeria.

Achievements

2011 – 2024: Acknowledged in the media (The Scientist, The Guardian, Times Higher Education, RTL Radio, RTL TV).

2012: Established SnT as an associated partner of the Erasmus Mundus Master Program in Vision & roBOTics (VIBOT). In this capacity, SnT became member of the VIBOT consortium, and is allowed to participate in the Academic/Management Board, to submit proposals for internships and MSc theses.

2011: Founder of the Computer Vision Laboratory at SnT.

02/2009: PhD Defense at age 26.

09/2008 – 05/2009: PhD Research grant from the US Defense Threat Reduction Agency (DTRA).

03/2007 – 12/2007: PhD Research grant from the US Office of Naval Research (ONR).

2005 – 2009: Full PhD Scholarship through North Carolina State University Graduate Student Support Plan (GSSP).

1997 – 2000: Ranked first over the Province of Blida, Algeria, on both national exams; Baccalaureate and College exams.

Outreach Activities

2023 – 2026: Partner on the Deep Dive PSP Flagship Project of the Luxembourg Tech School, where the goal is to foster interest and knowledge in the field of AI among high school students.

June 2024: Workshop organizer on Augmented reality, Virtual Reality and AI in Space as part of the **Asteroid Day Festival 2024**.

2023 – Present: Regular hosting of high-school students for a discovery of research on AI and computer vision.

Oct. 2023: Lawyer role defending AI in a mock trial, "Tech Supreme Court – AI Edition", open to the large public organized by The Dots, a Luxembourg-based networking company.

May 2023: Speaker and panelist at a 2-day event organized by the FNR and the Luxembourgish Parliament on Megatrends.

2023 – Present: Speaker for the ESTEAM (Entrepreneurship, Science, Technology, Engineering, Arts and Mathematics) initiative carried out by the European Commission, EISMEA, Deloitte, and the European Women's Association with the goal to provide a supportive community to girls and women interested in developing their digital and entrepreneurial competences.

2022 – Present: Advisor in the SnT Gender Equality Working group.

2023 – Present: Mentor in the ADVANCE Mentoring Program, at the University of Luxembourg

2021 – 2022: An interdisciplinary two-year collaboration with artists, musicians, and scientists in the context of Esch22 – a national project celebrating the city of Esch as the European Capital of Culture in 2022 (<https://www.esch2022.lu>).

May 2021: Contributor to the award-winning FNR PSP project "La vie quotidienne en 2040, le point de vue de la science" at the high school Ecole Privée Notre-Dame Sainte-Sophie of Luxembourg.

2019 – 2022: Embedding of computer vision and AI tools at schools and bringing awareness on digital ethics to school students through a long-term project in partnership with the FNR, the Ministry of Education and a hub school (<https://smartschoul2025.uni.lu>).

2016 – 2020: Large national data collection campaigns coupled with communication with the public (<https://cvi2.uni.lu/datasets/>).

List of Research Projects

*Acting as PI. Acting as Vice PI where indicated with an asterisk *.*

FNR: Fonds National de la Recherche (Luxembourg Funding Agency)

ESA : European Space Agency

EDF : European Defence Fund

Period	Project title	Amount	Source
2024-2026	Unsupervised Domain Adaptation for Spacecraft Pose Estimation	300 k€	LMO
2024-2026	DIOSSA (Phase 2) – Deep Learning-based In-orbit Space Situational Awareness	700 k€	ESA
2024-2026	Model Optimization for Satellite Pose Estimation	112 k€	Infinite Orbits (Industry)
2023-2025	AI4CC – HPC and Advanced AI For Crop Classification Using High Resolution Satellites	400 k€	FNR (Joint HPC Call)
2023-2026	ENERGETIC – Next Generation Battery Management System Based On Data Rich Digital Twin	500 k€	Horizon Europe
2023-2024	ROBOCOMP – Robotic Process Automation in Anti-Money Laundering (AML) Compliance	180 k€	FNR (NCER)
2023-2026	AUREA – Autonomous Recognition of Foreign Assets	700 k€	FNR (Joint Defence Call)
2023-2025	SPRING – Space Response to Risk & Integration with Ground segment	200 k€	Subcontracting – EDF
2022-2025	ELITE – Deep Fake Detection Using Spatio-Temporal-Spectral Representations for Effective Learning	750 k€	FNR (CORE)
2021-2023	DIOSSA (Phase 1) – Deep Learning-based In-orbit Space Situational Awareness	429 k€	ESA (LuxImpulse)
2021-2024	CASCADES – Deep Constrained Sequence modelling of CAD for reverse Engineering from 3d Scans	184 k€	FNR Industrial Fellowship
2022-2025	FREE3D – Feature-based Reverse Engineering of 3D Scans	400 k€	FNR BRIDGES (Industrial)
2021-2024	UNFAKE – Deep Fake Detection Using Spatio-Temporal-Spectral	184 k€	FNR Industrial Fellowship
2021-2022	Zero-G Lab project	180 k€	Ministry of Economy
2022-2025	FakeDeTeR – Deep Fake Detection Using Spatio-Temporal-Spectral Representations for Effective Learning	400 k€	FNR BRIDGES (Industrial)
2021-2024	OBSERVE – On Board poSe Estimation of uncoopeRatiVe spacecraft through Ellipsoid modeling	184 k€	FNR Industrial Fellowship
2021-2024	Proving Digital Asset Integrity using DeepFake Detection	393 k€	POST Telecom (Industry)
2021-2022	Skytrust – Authenticate Digital Assets Using Space Data	194 k€	ESA
2021-2022	Remix Science: The Sound of Data	37 k€	Esch 22

2020-2024	Deep Learning of 3D Scanned Data	808 k€	ARTEC 3D (Industry)
2021-2023	MEET-A: Multi-modal Fusion of Electro-optical Sensors for Spacecraft Pose Estimation Towards Autonomous in-Orbit Operations	400 k€	FNR BRIDGES
2020-2023	DETECT: Towards edge-optimized deep learning for explainable quality control	184 k€	FNR Industrial Fellowship
2020-2023	Visual Quality Control in Manufacturing	40 k€	DataThings (Industry)
2020-2020	REST: Software for home-based REhabilitation of STroke survivors *	45 k€	FNR JUMP
2020-2023	Space Situational Awareness Instrumentation	300 k€	LMO (Industry)
2019-2022	Smart School 2025: The Future Luxembourg Smart School	399 k€	FNR PSP-Flagship
2018-2021	IDform: Face Identification Under Deformations	499 k€	FNR CORE PPP
2017-2020	BodyFit: Accurate 3D human body shape modelling and fitting under clothing*	184 k€	FNR AFR PPP
2017-2020	AVR: Automatic Feature Selection for Visual Recognition*	184 k€	FNR AFR
2016-2019	3D-Act: 3D Action Recognition Using Refinement and Invariance Strategies for Reliable Surveillance*	732 k€	FNR CORE
2016-2019	STARR: Decision Support and self-mAnagement system for stRoke survivors	530 k€	PHC EU H2020
2016-2020	3D Shape Modelling	500 k€	ARTEC 3D (Industry)
2013-2015	PROTECT: Prevention of Fraud by Pattern Detection in Credit Card Transactions *	184 k€	FNR AFR PPP
2013-2015	Body Shape Estimation via Intelligent Imaging*	99 k€	Cubelux Sarl (Industry)
2012-2016	Resilient Infrastructures for Financial Transactions*	250 k€	CETREL SIX (Industry)
2011-2014	FAVE: Fusion Approaches for Visual systems Enhancement*	693 k€	FNR CORE
2011-2014	Multi-Sensor Fusion*	400 k€	IEE S.A. (Industry)

List of Taught Courses

Period	Course	Program	Institution
Fall 2023, 2022, 2021, 2020	Computer Vision & Image Analysis	- Interdisciplinary Space Master (ISM) - Master in Information and Computer Science (MICS)	Uni. of Luxembourg
Spring 2020, Spring 2019, Spring 2018	Visual Perception (Image Filtering, Image Features, and Image Matching)	International Master in Vision and Robotics (VIBOT)	Uni. of Burgundy
Fall 2012, Fall 2013	Advanced Image Analysis (Regularization, Non-local Means, Bilateral Filtering, Markov Random Fields)	International Master in Vision and Robotics (VIBOT)	Uni. of Burgundy
Fall 2012	Robotics Projects	International Master in Vision and Robotics (VIBOT)	Uni. of Burgundy
Spring 2012	Software Engineering	International Master in Vision and Robotics (VIBOT)	Uni. of Burgundy
Spring 2009	Optimization	Graduate Course in Electrical and Computer Engineering (ECE)	North Carolina State University (NCSU)
Spring 2008	Electrical Engineering for Non-Electrical Engineers	Undergraduate Course for non-Electrical Engineers	North Carolina State University (NCSU)

Supervision

Overall Supervision in Numbers

Team member	Number	Role	Status
PhD Candidates	16	Main Supervisor	4 successfully completed, 10 ongoing, 2 joining
	5	Co-supervisor	5 successfully completed
	6	Member of Supervisory/Evaluation Committee	3 successfully completed, 3 ongoing
PostDoc Researchers	28	Main supervisor	8 ongoing, 16 completed, 4 joining
Master Students	16	Main supervisor	15 successfully completed, 1 joining

Ongoing PhD Students

Period	PhD Candidate	(Working) Title of Thesis	Supervisory Role	Funding
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2024- today	Nidhal-Eddine Chenni	Unsupervised Domain Adaptation for Spacecraft Pose Estimation	Main Supervisor	Industrial
2024-today	Nassim Ali Ousalah	Effective Model Compression Techniques for Spacecraft Pose Estimation	Main Supervisor	Industrial
2023-today	Arthur Hubert	Using Neural Radiance Fields to improve Urban HD Maps (NeRF-Map)	Supervisory Committee	UL
2023-today	Mohammad Sadil Khan	Feature-based Reverse Engineering of 3D Scans	Main Supervisor	UL
2022-today	Romain Hermary	Leveraging Contextual Information for Efficient Dynamic Behavior Learning	Main Supervisor	FNR Joint Defence
2022-today	Dat Nguyen	Deepfake detection using spatio-temporal and spectral representations in a deep learning framework	Main Supervisor	FNR Bridges
2021-today	Tamara Roth	Management and governance of distributed ledgers and distributed identities	Supervisory Committee	UL
2020-today	Ci Yang	Learning Effective Video Representation for Human Action Recognition	PhD Evaluation Committee	INRIA Inria, Univ. Côte d'Azur
2022-today	Peyman Rostami	Disentangled representation learning for compact DNN design	Main Supervisor	FNR CORE
2022-today	Ahmet Serdar Karadeniz	Deep Learning Approaches towards Automated Computer Aided Design (CAD) and Redesign	Main Supervisor	FNR Bridges
2021-today	Nesryne Mejri	UNFAKE: Unsupervised multi-type explainable deepFAKE detection	Main Supervisor	FNR Industrial Fellowship
2021-today	Elona Dupont	ConstrAined Sequence modelling of CAD for reverse Engineering from 3d Scans	Main Supervisor	FNR Industrial Fellowship
2018-today	Kseniya Cherenkova	Automated CAD Re-engineering	Main Supervisor	Industrial (Part-time)

Completed PhDs

Period	PhD Candidate	Title of Thesis	Supervisory Role	Current
2020-2024	Inder Pal	Vision-based Data-driven Models for Fashion Item Retrieval	Main supervisor	SnT – UL
2020-2024	Mohamed Adel	Vision-based Spacecraft Situational Awareness	Main supervisor	SnT – UL
2021-2023	Inès Jorge	Machine-learning based predictive maintenance for Lithium-Ion batteries in electric vehicles.	Member of Defense Committee	-
2021-2023	Nicolas Beuve	Deep Learning Based DeepFake Video Detection	Member of Defense Committee/ Rapporteure	INSA Rennes
2021-2023	Linda Weigl	Governance of Digital Identities	Member of Defense Committee/ Supervisory Committee	U. of Amsterdam
2019-2022	Tarek Ben Charrada	3D object reconstruction from a single monocular image using Deep Learning	Member of Defense Committee/ Rapporteure	Reezocar
2019-2022	Benjamin Szczapa	Analysis and Prediction of Human Behavior Temporal Sequences in the Wild	Member of Defense Committee/ Rapporteure	-
2019-2022	Fitash Ul Haq	Scalable and Practical Automated Testing of Deep Learning Models and Systems	Chair of Defense Committee	SnT-UL
2019-2022	François Robinet	Minimizing Supervision for Vision-Based Perception and Control in Autonomous Driving	Member of Defense Committee	SnT-UL
2017-2021	Alexandre Saint	Automatic Analysis, Representation and Reconstruction of Textured 3D Huma Scans	Main supervisor	-
2017-2021	Renato Baptista	Context-based 3D Action Recognition	Main supervisor	Lunex
2017-2021	Mehrzi Sajad	Probabilistic Modeling for Content Popularity Learning For Proactive Caching	Chair of Defense Committee	SnT-UL
2016-2020	Ramiro Daniel Camino	Machine Learning Techniques for Suspicious Transaction Detection and Analysis	Supervisory Committee	LIST
2017-2020	Oyebade Oyedotun	Analyzing and Improving Very Deep Neural Networks: From Optimization, Generalization To Compression	Main supervisor	Spire
2016-2020	Konstantinos Papadopoulos	From Dense Trajectories to Sparse Trajectories for Action Recognition and Detection	Main supervisor	POST
2017-2020	Ashok Bandi	Joint Scheduling and Precoding in Wireless Networks: A DC Programming Approach	Chair of Defense Committee	SnT-UL
2017-2019	Jérémy Charlier	Big Data Analytics for Financial Data	Supervisory Committee	National Bank of Canada
2016-2019	Patrick Glauner	Artificial Intelligence for the Detection of Electricity Theft and Irregular Power Usage in Emerging Markets	Vice Chair of Defense Committee	Deggendorf Institute of Technology

2014-2017	Girum Demisse	Deformation-based Curved Shape Representation	Co-supervisor	Meta
2012-2016	Hassan Afzal	Full 3D Reconstruction of Dynamic Non-Rigid Scenes	Co-supervisor	Hexagon
2012-2015	Alejandro Correa	Example-Dependent Cost-Sensitive Classification	Co-supervisor	Cytxera Tech.
2011-2015	Kassem Al Ismaeil	Super-Resolution Approaches for Depth Video Enhancement	Co-supervisor	Ministry of Education
2009-2012	Frederic Garcia	Sensor Fusion Combining 3D and 2D for Depth Data Enhancement	Co-supervisor	IEE

Supervised Postdoctoral Researchers

Period	Postdoc	University of PhD Degree	Current Position
2023 - present	Dimitrios Mallis	Leiden University	SnT, UL
2023 - present	Marcella Astrid	University of Science and Technology, Daejeon	SnT, UL
2022 - present	Matthieu Ruthven	King's College London	SnT, UL
2022 - 2023	Michele Jamrozik	Georgia Tech University	SnT, UL
2022 - 2024	Carl Schneider	Leiden University	SnT, UL
2021 - 2022	Kankana Roy	Indian Institute of Technology, Kharagpur	SnT, UL
2021 - 2023	Leo Pauly	University of Leeds	SnT, UL
2021 - 2023	Sk Ali Aziz	TU Kaiserslautern - DFKI	SnT, UL
2021 - 2022	Laura Lopez Fuentes	University of the Balearic Islands	-
2021 - present	Arun Kumar Rathinam	University of New South Wales	SnT, UL
2021 - 2022	Miguel Ortiz	University of Alcala	Uni. Of Melbourne
2021 - present	Vincent Gaudillière	INRIA, Nancy	SnT, UL
2020 - 2022	Oyebade Oyedotun	University of Luxembourg	Spire
2019 - present	Anis Kacem	University of Lille	SnT, UL
2019 - 2021	Kassem Al Ismaeil	University of Luxembourg	Ministry of Education
2018 - 2019	Rig Das	Roma Tre University	Technical Uni. of Denmark
2018 - 2023	Enjie Ghorbel	University of Normandie	SnT, UL
2016 - 2020	Abd El Rahman Shabayek	University of Burgundy	SnT, UL
2017-2018	Girum Demisse	University of Luxembourg	Meta
2015-2017	Michel Antunes	Coimbra University	Perceive 3D
2012-2013	Alexander Stojanovic	RWTH Aachen University	Luxembourg Administration
2012-2014	Frederic Garcia	University of Luxembourg	IEE

Supervised Master Projects

Year	MSc Student	Project title	Host University
2021	Haytam Qadadri	Using event data for spacecraft pose estimation	University of Strasbourg
2023	Mohammed Elamine	Real-time Lidar SLAM on Embedded Platforms	University of Strasbourg
2021	Nesryne Mejri	Leveraging High-Frequency Components for Deepfake Detection	University of Luxembourg
2021	Elona Dupont	Music to Dance Leveraging 2D to 3D	University of Luxembourg
2021	Michele Jamrozik	Image Enhancement for Space Surveillance and Tracking	University of Luxembourg
2020	Sadiq Maculay	Recovering 3D Face Occlusions using Deep Generative Models for 3D Face Recognition	University of Burgundy
2020	Inder Pal	3D human behavior understanding using deep neural networks and a single RGB camera	University of Burgundy
2019	Hamza Ben Abdessalem	Expression Invariant Face Recognition	Higher Institute of Multimedia Arts of Manouba
2019	Mohamed Adel	Vision-based temporal modelling and its application to action recognition from arbitrary viewpoints	University of Burgundy
2018	Cristian Porumb	Landmark detection on 3D human bodies using a coarse-to-fine segmentation	University of Luxembourg
2018	Himadri Pathak	View-invariant action recognition using RGB data	University of Luxembourg
2015	Daniel Barmaimon	Depth Video-Based Facial Emotion Analysis	University of Burgundy
2013	Kedidja Kadir Idris	Face recognition using a time-of-flight camera	University of Trento
2013	Lijia Gao	Depth single image super resolution by sparse coding	University of Burgundy
2012	Abdenmour Zeboudj	Representation of color information in 1 dimension	Ecole Nationale Polytechnique d'Alger
2012	Hashim Kemal Abdella	Enhancement of stereo sensing by fusion	Herriot Watt University

List of Publications

Journals

1. N Mejri, L Lopez-Fuentes, K Roy, P Chernakov, E Ghorbel, D Aouada, Unsupervised anomaly detection in time-series: An extensive evaluation and analysis of state-of-the-art methods, Expert Systems with Applications, Vol. 256, 2024, 124922, ISSN 0957-4174,
2. IP Singh, E Ghorbel, O Oyedotun, D Aouada, Multi-label image classification using adaptive graph convolutional networks: from a single domain to multiple domains, Computer Vision and Image Understanding, vol. 247, 2024, 104062, ISSN 1077-3142

3. Jan Thoemel, Konstantinos Kanavouras, Maanasa Sachidanand, Andreas Hein, Miguel Ortiz del Castillo, Leo Pauly, Arunkumar Rathinam, Djamila Aouada, Lean Demonstration of On-Board Thermal Anomaly Detection Using Machine Learning, *Aerospace* 2024, 11, 523
4. Ashish Sinha, Jeremy Kawahara, Arezou Pakzad, Kumar Abhishek, Matthieu Ruthven, Enjie Ghorbel, Anis Kacem, Djamila Aouada, Ghassan Hamarneh, DermSynth3D: Synthesis of in-the-wild annotated dermatology images, *Medical Image Analysis*, Vol. 95, 2024, 103145, ISSN 1361-8415
5. L. Pauly, Wassim Rharbaoui, Carl Shneider, Arunkumar Rathinam, Vincent Gaudillière, Djamila Aouada, "A Survey on Deep Learning-Based Monocular Spacecraft Pose Estimation: Current State, Limitations and Prospects", *Acta Astronautica*, 2023.
6. L. Pauly, M. L. Jamrozik, M. Ortiz Del Castillo, O. Borgue, I. P. Singh, M. R. Makhdoomi, O. Christidi-Loumpasefski, V. Gaudillière, C. Martinez, A. Rathinam, A. Hein, M. Olivares-Mendez, D. Aouada, "Lessons from a Space Lab - An Image Acquisition Perspective", *Hindawi, International Journal of Aerospace Engineering*, Hindawi, 2023
7. J. Lorentz, T. Hartmann, A. Moawad, F. Fouquet, D. Aouada, Y. Le Traon. "CalcGraph: Taming the high costs of deep learning using models", *Journal of Software Engineering and Modelling*, Springer 2022
8. O. Oyedotun, K. Al Ismaeil, and D. Aouada. "Why is everyone Training Very Deep Neural Network with Skip Connections?", *IEEE Transactions on Neural Networks and Learning Systems*, 2021.
9. O. Oyedotun, K. Al Ismaeil, and D. Aouada. "Training Very Deep Neural Networks: Rethinking the Role of Skip Connections." *Neurocomputing* 441: 105-17 2021
10. A. Shabayek and D. Aouada. "Dense and Sparse 3D Deformation Signatures for 3D Dynamic Face Recognition." *IEEE Access* 9 (2021): 38687-38705. Impact Factor: 3.745
11. O. Oyedotun, A. E. R. Shabayek, D. Aouada, and B. Ottersten. "Improved Highway Network Block for Training Very Deep Neural Networks." *IEEE Access* (October 2020).
12. O. Oyedotun, A. E. R. Shabayek, D. Aouada, and B. Ottersten. "Deep network compression with teacher latent subspace learning and LASSO." *Applied Intelligence* (September 2020).
13. E. Ghorbel, R. Baptista, A. E. R. Shabayek, D. Aouada, M. Gorostiza Oramaeche, J. Orcajo Lago, and L. Ortiz Fernandez. "Home-based rehabilitation system for stroke survivors: a clinical evaluation." *Journal of medical systems* (October 28, 2020).
14. E. Ghorbel, G. Demisse, D. Aouada, and B. Ottersten. "Fast Adaptive Reparametrization (FAR) with Application to Human Action Recognition." *IEEE Signal Processing Letters* (2020).
15. K. Papadopoulos, G. Demisse, E. Ghorbel, M. Antunes, D. Aouada, and B. Ottersten, "Localized Trajectories for 2D and 3D Action Recognition." *Sensors*, 2019. Impact Factor: 3.031
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