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CURRICULUM VITÆ

Professor - ENIB / R&D Director (CTO) Naval Group Pacific

HIGHER EDUCATION

2012	Habilitation ¹ in Computer Science, Université de Bretagne Occidentale (UBO), France
2005	PhD in Computer Science, UBO, France
2002	MSc in Computer Science, Université Rennes I, France
2002	Engineer , National Engineering School (ENIB), France

EXPERIENCE

2023 - present	R&D Director (CTO) , Naval Group Pacific
2018 - present	Professor , ENIB
2021 - 2023	CNRS delegation , IRL 2010, Australia
2018 - 2020	Professor (by courtesy), University of Miami.
2007 - 2018	Associate professor , ENIB.
2006 - 2007	Assistant associate professor, UBO
2005 - 2006	Assistant associate professor, ENIB

RESEARCH

Topics :	Artificial Intelligence, Virtual Reality, Machine Learning, Human Factors, Robotic
Applications :	Video games, Virtual Environment for Learning, Maritime
Supervisions :	19 PhD + 30 MSc + 5 engineers + 2 Post-doc
Management :	Research teams leader (10 staff members) and programs leader (50 staff members)

TEACHING

Main :	Master 2 program leader during 10 years (computer science)
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COMPETITIONS / AWARDS

2023	1st RoboCup@Home ²
2022	1st RoboCup@Home
2022	Elected " French of the year in Australia "
2021	3rd RoboCup@Home
2020	1st RoboCup@Home Education
2017	Finalist Angry Birds AI - IJCAI 2017
2016	Finalist Angry Birds AI - IJCAI 2016
2015	1st Angry Birds AI - IJCAI 2015
2014	Semi-Finalist Angry Birds AI - ECAI 2014
2013	Finalist Angry Birds AI - IJCAI 2013
2013	1st Man vs Machine Challenge - IJCAI 2013

1. Highest degree in French academic education, awarded after passing the tenure process, qualifies for full professorship

2. == world champion in social robotics

CONTRACTS

Institutional EU, ANR, AID (defense), USA funding, FUI (≈ 500 K €+ PhD salaries)
Industrial CIFRE, Expertise, Contract (≈ 1 M €+ PhD salaries) :
ArianeGroup, Thales, Segula, Ericsson, Naval Group

PATENT

2021 "Infobuna" : software for disease detection and grading of coffee using photos (num
IDDN.FR.001.170002.000.S.P.2021.000.2100)

MAIN PUBLICATIONS

Rank A : Delamarre A., Shernoff E., Buche C., Frazier S., Gabbard J. and Lisetti C. (2021).
The Interactive Virtual Training for Teachers (IVT-T) to Practice Classroom Behavior
Management. *International Journal of Human - Computer Studies*. 152.

Rank A : Cazorla R., Pionel L., Papadakis P. and Buche C. (2021). Bottleneck Identification to
Semantic Segmentation of Industrial 3D Point Cloud Scene via Deep Learning. *Inter-
national Joint Conference on Artificial Intelligence (IJCAI)*. pages 4877-4878

Rank A : Delamarre, A., Buche C. and Lisetti C. (2021). Modeling Emotions for Training in
Immersive Simulations (METIS) : a Cross-Platform Virtual Classroom Study. *IEEE
International Symposium on Mixed and Augmented Reality (ISMAR)*. pages 78-83

Rank B : Cazorla R., Pionel L., Papadakis P. and Buche C. (2022). Reducing domain shift in
synthetic data augmentation for semantic segmentation of 3D point clouds. *IEEE In-
ternational Conference on Systems, Man, and Cybernetics (SMC)*.

Rank B : Walleign S., Polceanu M., Jemal T. and Buche C. (2019). Coffee Grading with Convolu-
tional Neural Networks using Small Datasets with High Variance. *International Confe-
rence on Computer Graphics, Visualization and Computer Vision (WSCG)*, pages 113-
120

Jury

Habilitation : Reviewer (1), Member (1)
PhD : Reviewer (6), President (4), Member (14)

MAIN PRESS

2022 : France Inter interview "la matinale" on interactive robotic
2021 : Magazine "l'Usine Nouvelle" published an interview on my research activities
2018 : Magazine "Planet Robots" published an article on my research activities (2 pages)