Université de Strasbourg

UNIVERSITY OF STRASBOURG



ÉCOLE DOCTORALE Mathématiques, Sciences de l'Information et de l'Ingénieur (MSII) UMR7357

PhD Thesis by

Emmanuel DERVIEUX

Defended on **DECEMBER 19, 2024**

To obtain the degree of: Doctor from the University of Strasbourg

In the field of: Electronics, microelectronics, optics and lasers, optoelectronics, microwave, robotics

Non-Invasive Transcutaneous Characterisation of Blood Carbon Dioxide (CO₂) Content

SUPERVISORS:

Mr UHRING WilfriedProfessor, Université de Strasbourg(Director)Mr THÉRON MichaëlProfessor, Université de Bretagne Occidentale(Co-Director)

REVIEWERS:

Mr PERCHOUX Julien Professor, Université de Toulouse

Mr BOUIT Pierre-Antoine Research Habilitation, Rennes Institute of Chemical Sciences

COMITTEE PRESIDENT:

Mrs GIROUX-METGÈS Marie-Agnès Professor, Université de Bretagne Occidentale

M.D., Hôpital Morvan

OTHER COMITTEE MEMBERS:

Mr VERGÈS Samuel Research Director, HP2 Grenoble Laboratory

Mr LE GUILLOU Yann PhD, Biosency