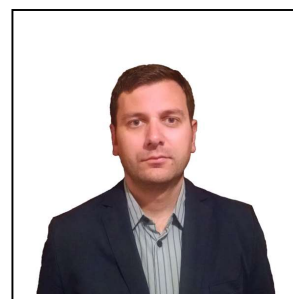




**Europass
Curriculum Vitae**



Personal information

First name(s) / Surname(s) **Stefan G. Stanciu**
Address Splaiul Independentei 313, 060042 Bucharest (Romania)

E-mail(s) stefan.g.stanciu@upb.org
Homepage <http://sgstanciu.cmmip.ro>
Nationality Romanian
Date of birth
Gender Male

Research interests laser scanning microscopy, scanning probe microscopy, photonics, biophotonics, optics, biomedical engineering, nanoscopy, image acquisition, image processing, computer vision, image fusion, image understanding, algorithm development and optimization, sample preparation, image metrology, applied physics, cellular and molecular biology, advanced materials.

WORK EXPERIENCE

Year(s) 2015 →(ongoing)
Occupation or position held Director/Coordinator for research grants funded under national and EU competitions
Name and address of employer Center for Microscopy-Microanalysis and Information Processing, University Politehnica Bucharest

Year(s) 2012 →(ongoing)
Occupation or position held Scientific Researcher
Name and address of employer Center for Microscopy-Microanalysis and Information Processing, University Politehnica Bucharest

Year(s) 2013
Occupation or position held SCIEX Research Fellow
Name of employer Light Microscopy and Screening Center, Swiss Federal Institute of Technology (ETH Zurich)

Year(s) 2007 – 2011
Occupation or position held Research Assistant
Name of employer Center for Microscopy-Microanalysis and Information Processing, University

Politehnica Bucharest

Year(s) 2003 – 2007
Occupation or position held Undergraduate Research Intern
Center for Microscopy-Microanalysis and Information Processing, University
Name of employer Politehnica Bucharest

Year(s) 2005 – 2006
Occupation or position held IT Consultant
Name and address of employer WING Computer Group

EDUCATION AND TRAINING

Dates 1998-2002
Name and type of organisation providing education and training “Spiru Haret” National College (High-School)
Specialization Informatics
Title gained Assistant Analyst Programmer

Dates 2002 – 2007
Title of qualification awarded Diplome Engineer
Domain, Specialization Applied electronics, Information Engineering
Name and type of organisation providing education and training Faculty of Electronics, Telecommunications and Information Technology, University "Politehnica" of Bucharest.

Dates 2007 – 2011
Title of qualification awarded PhD in Electronics and Telecommunications
Title of thesis Image Processing and Computer Vision Techniques for Enhancing the Visualization of Confocal Scanning Laser Microscopy (CSLM) Data
Defense committee: Prof. Alberto Diaspro (Italian Institute of Technology), Prof. Genaro Saavedra (University of Valencia), Prof. Paul Schioppa (University Politehnica of Bucharest)
Name and type of organisation providing education and training Faculty of Electronics, Telecommunications and Information Technology, University "Politehnica" of Bucharest.

PARTICIPATION IN NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

Program/Project	Duration
<p>RO-NO-2019-0601: Understanding Membrane Dynamics and their Implications for Cancer with Correlative Optical Nanoscopy and Artificial Intelligence (MEDYCONAI) –Project Coordinator (in collaboration with Partner Leader Prof. Harald A . Stenmark, Oslo University Hospital)</p>	2021-2023
<p>PN-III-P1-1.1-TE-2019-1339: Augmenting Micro- and Nanoscale Optical Imaging Techniques with Generative Adversarial Networks (OPTIGAN) –Project Director</p>	2021-2022
<p>PN-III-P2-2.1-PED-2019-1666: Method for fast and precise diagnostic of gastric cancers based on non-linear optical microscopy and Deep Learning (GASTRODEEEP) –Project Coordinator (in collaboration with Partner Leader Prof. Mariana Costache, Carol Davila University of Medicine and Pharmacy)</p>	2020-2022
<p>PN-III-P2-2.1-PED-2019-2386: Development of a nanoscale read/write platform for photonic crystals and waveguides for computations optics (INTEGRAOPTIC), Research Team Member</p>	2020-2022
<p>PN-III-P1-1.1-TE-2019-1756: Integration of pixel-wise and whole image classification of second harmonic generation microscopy datasets for thyroid pathology (SHGTHYPATH), Research Team Member</p>	2020-2022
<p>Project funded by H2020 ATTRACT’s competition for breakthrough technology concepts: Higher-harmonic Generation Microscopy Beyond the Diffraction Barrier based on Re-scan Strategies for Optical Data Acquisition (HARMOPLUS) –Project Coordinator (in collaboration with Partner Leader Prof. Erik Manders, Confocal.nl)</p>	2019-2020
<p>Project funded by H2020 ATTRACT’s competition for breakthrough technology concepts: A novel approach for near-field optical microscopy based on tip-enhanced fluorescence via plasmon resonance energy transfer (TEFPLASNOM) –Project Coordinator (in collaboration with Partner Leader Prof. Loredana Latterini, University of Perugia)</p>	2019-2020
<p>Project funded by the Bureau of International Co-operation of the Chinese Academy of Sciences: Biological Near - field fluorescence microscopic imaging system with functional nanomaterials -Partner Team Leader (in collaboration with Principal Investigator Assoc. Prof. Fang Yang, Ningbo Institute of Material Technology & Engineering)</p>	2020-2021
<p>PN-III-P1-1.1-TE-2016-2147: Correlative optical imaging in the far-field and near-field regimes: technical developments and applications (CORIMAG), Project Director</p>	2018-2020

PN-III-P1-1.1-TE-2016-2147: Label-free quantitative microscopy based on second harmonic generation at nanoscale (NANO-SHG), Research Team member	2018-2020
PN-III-P3-3.1-PM-RO-CN-2018-0177: Novel Optical Imaging Approaches for the In-depth Understanding of Advanced Nanostructured Materials and their Interaction with Biological Species (NANOMATBIOIMAGE), Project Director (<i>in collaboration with Co- Principal Investigator Dr. Fang Yang, Ningbo Institute of Material Technology &. Engineering, China</i>)	2018-2019
CN: Guangxi Scientific Research And Technology Development Plan: Exploiting the application of single molecule imaging technology in researches of enzyme engineering, Partner Team Leader (in collaboration with <i>Prof. Shaomin Yan, Project Director on behalf of Guangxi Academy of Sciences in Nanning, China</i>)	2017-2020
PN-III-P2-2.1-PED-2016: An experimental machine intelligence framework for the automated differentiation of healthy, dysplastic and malignant tissues based on multiphoton microscopy datasets (MICAND) Project Coordinator (in collaboration with <i>Prof. Mariana Costache, Partner Leader on behalf of “Carol Davila” University of Medicine and Pharmacy in Bucharest</i>)	2017-2018
PN-III-P2-2.1-PED-2016: QUANTITATIVE NANOSCOPY FOR THE CHARACTERIZATION OF BIOLOGICAL TISSUES (Q-NANOBIOT). Research team member	2017-2018
PN-III-P2-2.1-PED-2016: HOLOGRAPHIC ELEMENTS FABRICATED BY MEANS OF TWO PHOTON POLYMERIZATION FOR A DEMONSTRATIVE OPTICAL COMMUNICATIONS MODULE. Research team member	2017-2018
FRAMEWORK FOR BILATERAL SCIENTIFIC COOPERATION ROMANIA – CHINA: INVESTIGATIONS ON THE FUNCTION AND MICRO-STRUCTURE OF THE CELLULASE SECRETION SYSTEM BY HIGH-RESOLUTION IMAGING TECHNIQUES (CESESYS) Project Director (in collaboration with Co-Principal Investigator Dr. Guang Wu from Guangxi Academy of Sciences in Nanning)	2016-2017
PN-II-RU-TE-2014-4-1803: CORRELATION AND INTEGRATION OF MICROSCOPY AND NANOSCOPY DATA BY ADVANCED COMPUTER VISION METHODS (MICRONANO), -Project Director	2015-2017
POSDRU/159/1.5/S/137390/ POST-DOCTORAL RESEARCH FELLOWSHIP: COMPUTER VISION TECHNIQUES FOR AUTOMATED ANALYSIS AND	2014-2015

CORRELATION OF SCANNING LASER AND SCANNING PROBE MICROSCOPY DATA (COVIAC), <u>-PRINCIPAL INVESTIGATOR, (Excellence Award)</u>	
CH-SCIEX/ POST-DOCTORAL RESEARCH FELLOWSHIP: REGISTRATION AND FUSION OF HIGH RESOLUTION IMAGING DATA (IMPLEMENTED AT ETH ZURICH), <u>-PRINCIPAL INVESTIGATOR</u>	2013
PN-II-PT-PCCA/ NEW METHODS AND INVESTIGATIONS PROTOCOLS FOR THE EARLY DIAGNOSIS, EFFICIENT SCREENING, PROGNOSTIC AND THERAPY OF NON-MELANOMA SKIN CANCERS BASED ON EXISTING AND NOVEL MICRO & NANO OPTICAL TOOLS, - Research team member	2012-2016
EU-CORDIS-FP7/ REAL TIME LABEL FREE NANOSCOPY USING INFRA RED ABSORPTION (LANIR). Research team member	2012-2015
PN-II-PT-PCCA/ INNOVATIVE METHOD AND SYSTEM FOR THE DETECTION OF DRUG EVIDENCE BY PLASMA-LASER ASSISTED MASS SPECTROSCOPY. Research team member	2012-2016
EU-CORDIS-FP7/ ELECTRICALLY MODIFIED BIOMATERIALS SURFACE: FROM ATOMS TO APPLICATIONS, GRANT AGREEMENT (<i>BIOELECTRICSURFACE</i>). Research team member	2008-2011
BILATERAL SCIENTIFIC COOPERATION PROJECT: ROMANIA-SLOVAKIA. Research team member	2011-2012
BILATERAL SCIENTIFIC COOPERATION PROJECT: ROMANIA-TURKEY. Research team member	2010-2011
BILATERAL SCIENTIFIC COOPERATION PROJECT: ROMANIA-INDIA. Research team member	2007-2009
RO-PNII-IDEI/ DEVELOPMENTS OF NEW INVESTIGATION TECHNIQUES IN SCANNING OPTICAL MICROSCOPY AND THEIR APPLICATIONS. Research team member	2009-2011
PNII/ STUDIES REGARDING INTERACTION MECHANISMS BETWEEN LASER AND RADIOFREQUENCY RADIATION WITH SUPERIOR AERODIGESTIVE TISSUES AND THE DEVELOPMENT OF THERAPEUTICAL PROTOCOLS. Research team member	2007-2010

PNII/ STUDIES OF MODIFICATIONS INTRODUCED IN ZIRCONIA, SPINEL AND SiC BY IONIC IMPLANTATION AND THERMAL TREATMENTS BY USING IBA AND OTHER ADVANCED TECHNIQUES. Research team member	2007-2010
PNII/ IMPACT OF ENVIRONMENTAL FACTORS TO THE FORMATION DYNAMICS AND STRUCTURAL BEHAVIOR OF TEMPORARY TEETH. Research team member	2007-2010
RO-CEEX/ ADVANCED TECHNOLOGIES REGARDING MANUFACTURING POSIBILITIES OF SUBMICRONIC ELEMENTS BY LITOGRAPHIC METHODS (SUBLITO). Research team member	2006-2008
RO-CERES/ EXPERIMENTAL MODEL OF EARLY DIAGNOSIS OF ARTWORK DAMAGE BY LIF. Research team member	2004-2006
RO-RELANSIN/ INTEGRATED SECURITY SISTEM FOR DIFFERENT MILITARY OBJECTIVES. Research team member	2004-2006

PARTICIPATION IN EU COST ACTIONS

CA15124 A NEW NETWORK OF EUROPEAN BIOIMAGE ANALYSTS TO ADVANCE LIFE SCIENCE IMAGING (NEUBIAS) – MANAGEMENT COMMITTEE MEMBER; ITC Conference Grants Coordinator	2016-2020
CA16124 BRILLOUIN LIGHT SCATTERING MICROSPECTROSCOPY FOR BIOLOGICAL AND BIOMEDICAL RESEARCH AND APPLICATIONS (BIOBRILLOUIN)” – MANAGEMENT COMMITTEE MEMBER	2017-2021
CA19118 - High-performance Carbon-based composites with Smart properties for Advanced Sensing Applications (EsSENce) - MANAGEMENT COMMITTEE MEMBER; STSM Programme Coordinator & Grant Awarding Coordinator	2020-2024

EDITORIAL APPOINTMENTS:

- Senior Editor, IEEE Photonics, IEEE (2021-ongoing)
- Associate Editor, Frontiers in Photonics, Frontiers (2021-ongoing)
- Academic Editor: Scanning, Hindawi – Wiley (2021- ongoing)
- Topic Editor: Materials, MDPI (2020-ongoing)
- Review Editor: ‘Nanobiotechnology’ section of Frontiers in Bioengineering and Biotechnology (2015-ongoing)
- Guest Associate Editor at Materials (Special Issue: “Artificial Intelligence for Advanced Materials Research”), 2020 -

- Guest Associate editor at the Biomedical Physics Section of Frontiers in Physics and Frontiers in Physiology (Research Topic: “Advances in Label Free Tissue Imaging with Laser Scanning Microscopy Techniques”), 2019-2020
- Guest Associate Editor at the Nanoscience Section of Frontiers in Chemistry (Research Topic: “Recent Trends in Optical and Mechanical Characterization of Nanomaterials”), 2019-2020
- Guest Associate Editor at Scanning (Special Issue: “Novel Scanning Characterization Approaches for the Accurate Understanding and Successful Treatment of Oral and Maxillofacial Pathologies”), 2019-2020

REVIEWED MANUSCRIPTS FOR:

Biomedical Optics Express, Optics Letters, Journal of Biophotonics, Scientific Reports, Measurement, Data in Brief, Artificial Intelligence in Medicine, OSA Continuum, Computer Methods and Programs in Biomedicine, IEEE Transactions on Systems, Man and Cybernetics: Systems, Sensors, Electronics, Microscopy Research and Technique, Review of Scientific Instruments, IET Computer Vision, IET Image Processing, Frontiers in Molecular Biosciences, Frontiers in Chemistry, Frontiers in Cellular Neuroscience, Frontiers in Bioengineering and Biotechnology Frontiers in Physics, PlosOne, Optik, Materials Letters, Journal of Gastroenterology and Hepatology, ACS Photonics, ACS Sensors, IEEE Photonics.

AWARDS:

- Presentation Award of the *The Spanish-Portuguese Meeting for Advanced Optical Microscopy, Bilbao, Spain, 5-7 October, 2016*: Multimodal Imaging of nanostructured materials and biological samples in the far-field and near-field Regimes, S.G. Stanciu, D.E. Tranca, C. Stoichita, R. Hristu, L. Pastorino, J.M. Bueno, C. Ruggiero, A. Antipov, G.A. Stanciu.
- Best Poster Presenter Award of the EuroNanoForum EuroNanoForum 2015, Riga, Latvia, 10-12th of June, 2015: Combined Multimodal Imaging at Micro- and Nanoscale Using Complementary Contrast Mechanisms, S.G. Stanciu, C. Stoichita, R. Hristu, D.E. Tranca and G.A. Stanciu
- European Social Fund Project POSDRU/159/1.5/S/137390/: Award for exceeding the fellowship’s objectives (conference presentations), Award for exceeding the fellowship’s objectives (journal publications), Excellence Award (highest cumulated publication impact factor in the postdoc target group),
- >20 PRECISI Awards of the Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) for authorship of publications in top-tier journals (1st and 2nd quartile journals)

INVOLVEMENT IN ORGANIZATION/SUPPORT OF INTERNATIONAL CONFERENCES:

- Member of the Organizing Committee for the 2012 Workshop on Super-resolution and Life Sciences, 3-6 October 2012, Brasov, Romania
- Member of the Organizing Committee for the 2018 International Conference on Transparent Optical Networks, 1-5 July 2018, Bucharest, Romania
- Inclusiveness Target Countries Conference Grant Coordinator for the CA15124 NEUBIAS Cost Action (2018-2020).