



Identification

Name: Carlos Manuel da Silva Félix

Nationality: Portuguese

Born: Porto, Portugal at 6th September 1963

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Scopus Author ID: 25654806900

Scientific degrees

2013 - Aggregation, Civil Engineering, Faculty of Engineering - University of Porto;

2005 - PhD, Civil Engineering, Faculty of Engineering - University of Porto;

1992 - Master in Civil Engineering, Faculty of Engineering - University of Porto;

1986 - Graduation (5 years) in Civil Engineering (Structures), Faculty of Engineering - University of Porto.

Actual position

- Coordinator Professor (since 2002) at Civil Engineering Department (DEC), School of Engineering, Polytechnic Institute of Porto (ISEP);
- Integrated member of Construct - Institute of R&D in Structures and Construction, Research Unit recognized by the National Science and Technology Foundation (since 2015);
- Head of Structural Division at DEC-ISEP (since 2011).

Previous positions

- Associate Professor, DEC-ISEP (1994 - 2002);
- Assistant Professor, DEC-ISEP (1991 - 1994);
- Integrated member of LABEST - Research Unit recognized by the National Science and Technology Foundation (2003-2015);
- Director of Master in Civil Engineering at ISEP (from November 2014 to June 2018);
- Member of the Scientific and Technical Council (CTC) of ISEP (2007/2008 and 2012/2014);
- Director of the Degree in Civil Engineering at ISEP (from October 2005 to March 2008);
- Director of a Pos-Graduation in Assisted Calculation of Structures at ISEP (2014 and 2015)

Main teaching activity

- Graduation in Civil Engineering: Coordinator of “Concrete Structures I”, “Concrete Structures II” and “Project”;
- Master in Civil Engineering: Coordinator of “Prestressed Concrete Structures” (from 1999 until 2001), “Steel and Composite Structures”, “Preparation and Conceive Work of a Master Dissertation” and “Dissertation, Project and Internship”.

Main research areas

- Structural health monitoring systems applied to bridges and other civil engineering structures using electrical based sensors and fiber optic sensors.

- Inspection, non-destructive tests and load tests of structures.
- Development of optical fiber sensors and other sensors to monitor structures in civil engineering.

Research Activity

- Participation in several research projects, with National and/or European funding (Principal Investigator in 3 of them);
- Supervising work: 3 PhD Thesis (2 concluded), 18 Master's Dissertations and 10 internships;
- Participation in the evaluating committees (juries) of scientific applications: 3 PhDs, 6 professional competence evaluations and more than 100 MSc;
- Participation in juries of Public Contests for Coordinator and Assistant Professors;
- Projects reviewer for ANI - National Innovation Agency;
- Referee of papers in national and international journals and conferences proceedings;
- Participation in more than 80 national and international events, such as conferences, congresses, workshops and fairs;
- Member of Scientific Committee, Organizing Committee or Advisory Committee of more than 20 scientific events;
- Author and co-author of more than 100 papers in national and international conferences proceeding, journals and publications;
- About 134 citations and H index: 5

Other activities

- Person in charge (PEP) of the preliminary accreditation (2010) and the self-evaluation processes (2017) of the Master in Civil Engineering (4 specialization areas) submitted to A3ES;
- Member of External Assessment Team of A3ES (2018);
- Responsible for the creation of the Laboratory of Structures and Laboratory of the Resistance of Materials at DEC - ISEP (2006);
- Responsible for the creation of the Master in Technology and Construction Management at ISEP (2006);
- Responsible for the creation and implementation of the graduation post Bologna (3 years) in Civil Engineering at ISEP (2006).

Theses

- Monitorização e Análise do Comportamento de Obras de Arte (Monitoring and Analysis of the Behaviour of Bridges and Viaducts). Doctoral Thesis. FEUP. October, 2005.
- Monitorização do Comportamento de Estruturas de Betão (Monitoring of the Behaviour of Concrete Structures). Thesis submitted to an open competition to fill a vacancy of Coordinator Professor at Civil Engineering Department (Structural Division) of ISEP. April, 2002.
- Comportamento dos Muros de Terra Armada (Behaviour of Reinforcement Earth Walls). Master Thesis, FEUP. May, 1992.

Patent

- FIGUEIRAS, J.; FÉLIX, C.; RODRIGUES, C.; "Transducer for Measuring Vertical Displacements". Universidade do Porto, Instituto Politécnico do Porto. International Patent, WO/2010/053392 / National Patent PT-104250, 2010.

Other Relevant Publications

- N. Cristelo; C. Félix; Figueiras, Joaquim – Experimental Behaviour of Concrete Box Culverts - Comparison with Current Codes of Practice. Canadian Geotechnical Journal. DOI: 10.1139/cgj-2018-0506. September 2018.
- N. Cristelo; C. Félix; M. L. Lopes; M. Dias - Monitoring and Numerical Modelling of an Instrumented Mechanically Stabilised Earth Wall. Geosynthetics International. Volume 23 Issue 1, February, 2016, pp. 48-61 DOI: 10.1680/jgein.15.00032.
- CAVADAS, Filipe; RODRIGUES, Carlos; FÉLIX, Carlos; FIGUEIRAS, Joaquim – Post-rehabilitation assessment of a centenary steel bridge through numerical and experimental analysis. Journal of Constructional Steel Research. Vol. 80 : pp. 264-277, 2013.
- RODRIGUES, Carlos; CAVADAS, Filipe; FÉLIX, Carlos; FIGUEIRAS, Joaquim – FBG based strain monitoring in the rehabilitation of a centenary metallic bridge. Journal of Engineering Structures. Vol. 44: pp.281-290, November, 2012.
- DIMANDE, Américo; PIMENTEL, Mário; FÉLIX, Carlos; FIGUEIRAS, Joaquim – Monitoring system for execution control applied to a steel arch footbridge. Journal of Structure and Infrastructure Engineering. Maintenance, Management, Life-Cycle Design and Performance. Vol. 8, N. 3: pp.277-294. March, 2012.
- Yearbook of Master Theses 2015. Editors: Carlos Félix, Tiago Abreu, Ângelo Jacob, José Castro Trigo, José Pinto-Faria . ISEP, Politécnico do Porto. May, 2017. ISBN: 978-989-98875-6-5.
- Yearbook of Master Theses 2016. Editors: Carlos Félix, Tiago Abreu, Ângelo Jacob, José Castro Trigo, José Pinto-Faria. ISEP, Politécnico do Porto. May, 2017. ISBN: ISBN 978-989-98875-5-8.
- More than 70 technical and scientific reports in commissioned service at LABEST-FEUP and NEC-ISEP.

Professional experience

- Civil engineering at GEG - Gabinete de Estruturas e Geotecnia, Lda. (structural design of buildings, bridges and viaducts);
- Founding member (in May 2006) and manager (from 2008 to 2012) of NewMENSUS Lda., a technology based company dedicated to providing services in the area of civil engineering (specialized in monitoring, inspection and testing of structures);
- Consultant of the enterprise CQO - Construções e Engenharia do Ambiente, Lda. In the area of the structures in civil engineering, namely in the design of reservoirs and other structures in water treatment systems.

Scientific and professional associations of which is a member

- Portuguese Engineers Association (OE);
- Portuguese Geotechnical Society (SPG);
- International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE);
- Portuguese Group of Structural Concrete (GPBE);
- Portuguese Association for Safety and Conservation of Bridges (APSCP).

Porto, November 20th, 2018

Carlos Félix