

CURRICULUM VITAE

SERGIO CAVALIERI



CURRENT POSITION

Full Professor of Operations Management at the *Department of Management, Information and Production Engineering, University of Bergamo* (<http://www.unibg.it>).

Vice-Chancellor for Innovation, Technology Transfer and Valorisation of Research at the *University of Bergamo*

Director of *SDM – School of Management – University of Bergamo* (<http://sdm.unibg.it>)

Director of *CELS – Research Group on Industrial Engineering, Logistics and Service Operations* – established within the Department of Engineering, University of Bergamo. The Group currently counts on 4 senior researchers and 8 fellow and associate researchers (for more details on CELS activities please refer to: <http://cels.unibg.it>).

President of AIDI (Italian Scientific Association of Industrial Systems Engineering Professors).

EDUCATION

Mar. 1998 – Jul. 1998 – Post-doc Visiting Scientist at the Robotics Institute at *Carnegie Mellon University*, Pittsburgh (USA) with a Fulbright scholarship.

Feb. 1995 – Feb. 1998 - PhD candidate in Management and Production Engineering at *Politecnico di Milano* with final dissertation on “Application of multi-agent architectures for scheduling and control of production systems”.

Oct. 1987 – Jul. 1994 - Master of Science in Management and Production Engineering at *Politecnico di Milano* with final grade 100/100.

SUPERVISION OF RESEARCH PROJECTS

Since October 2014 – Scientific responsible for the University of Bergamo Research Unit of the H2020 FoF2014 research project “DIVERSITY - Cloud Manufacturing and Social Software Based Context Sensitive Product-Service Engineering Environment for Globally Distributed Enterprise” (*starting date: 1/02/2015, funding: 454 K€*)

Since January 2013 – Scientific supervisor of the project “*Engineering and assessing condition based maintenance product-service solutions*” selected for funding by the ABB Research Grant Program launched

by ABB Corporate Research, Germany; the grant has been confirmed also for 2014 and 2015 (*funding: 165 K€*)

Since October 2012 – Scientific Director of *“Bergamo 2.(035) – A new Urban Concept for a New World”* funded by Italcementi Foundation (*funding: 250 K€*)

Since July 2011 - Scientific coordinator of *PROSSALIC (PROduct-Service System Across Life Cycle)*, a FP7-PEOPLE-2010-IRSES Marie Curie Actions—International Research Staff Exchange Scheme (IRSES) with the involvement of the following partners: Ort Braude College (Israel), Mays Business School Texas University (USA), Cranfield University (UK), University of Aalborg (Denmark), University of Florence (Italy), University Federal de Rio Grande (Brasil), Tokyo Metropolitan University (Japan), University of South Australia (Australia) (*funding: 210 K€*)

Since January 2011 – Scientific responsible for University of Bergamo Research Unit of *“SIGI-X - A Business template for one-of-a-kind companies”*, a research project funded within the Industria 2015 - Made in Italy national research program (*funding: 322 k€*)

Jan. 2010 – Dec. 2012 - Scientific responsible for University of Bergamo Research Unit of *“ESA (Electric Signature Analysis) for predictive maintenance”* funded by the Lombardy regional research program (*funding: 60 K€*)

Jun. 2007 – Dec. 2009 - Scientific coordinator of the *“PROPHET (PROgnostic Platform for accomplishing Experimentation and Testing)”* project funded by the INTELLIMECH Research Consortium (www.intellimech.it) (*funding: 233 K€*)

Jun. 2006 – Dec. 2009 - Member of the *Technical Development Steering Committee of the Supply Chain Council* and Coordinator of the development team of CCOR (Customer Chain Operations Reference Model).

Oct. 2004 – Mar. 2007 - Scientific responsible of the European Project *“ESCM - An internet-based education/training platform in the field of supply chain management for students, teachers and industrial employees”* funded by the Leonardo Da Vinci program (*funding: 89 K€*)

Jan. 2006 – Nov. 2006 - Coordinator and scientific responsible of the European project *“LOG4SMEs - Improving Logistics performance of SMEs in the Automotive Sector”* carried out in collaboration with the Fraunhofer Institute for Manufacturing Engineering and Automation, Stuttgart and Széchenyi Gyor University, funded by the INTERREG Regins program (*funding: 81 K€*)

Jun. 2002 – Dec. 2005 - Scientific coordinator of the research activities of the *“Special Interest Group on Benchmarking and Performance Measurement”* – jointly coordinated with Dr. Paul Valckenaers – KU Leuven (BE) – within the Network of Excellence IMS (Intelligent Manufacturing Systems).

Jan. 2005 – Dec. 2009 – National Coordinator of the ASAP – Service Management Forum (www.asapsmf.org).

Dec. 2002 – Dec. 2004 - National coordinator and scientific responsible of the national PRIN project 2002 *“ASAP (After Sales Advanced Planning) ”*, in collaboration with University of Brescia, University of Florence, Politecnico di Milano and Università Commerciale Luigi Bocconi (*funding: 180 K€*)

COORDINATION AND SUPERVISION OF INDUSTRIAL PROJECTS

He has coordinated several industrial and technology transfer projects in collaboration with industrial companies and associations in the application areas of Supply Chain Management, Operations Management, Service Operations and Engineering, Industrial Asset Management with an overall funding of 1,3 M€.

Among them, the following ones can be cited:

- *PRETERIM - A predictive maintenance plan based on infrared thermography*, in collaboration with Brembo SpA
- *ENERGY AUDIT - Delivering accurate and cost-effective energy audits*, in collaboration with Innowatio SpA.
- *SERVICE MAINTENANCE - Optimization of preventive maintenance intervals based on reliability analysis and service level agreement*, in collaboration with CMS SpA
- *V-LOG - Strategic inventory decision in the vending sector*, in collaboration with IVS SpA
- *LODIS - Distribution logistics analysis for an automotive company operating in the aftermarket industry*, in collaboration with Brembo SpA
- *FOREPLAN - Forecasting and Planning in the automotive sector*, in collaboration with Same Deutz Fahr SpA
- *SIMAN - Engineering the maintenance system of a water utility company*, in collaboration with Uniacque SpA
- *RFID - Application of the RFID technology in tool management*, in collaboration with Balluff SpA

TEACHING ACTIVITIES

Since 2004 – Director of the post-graduate Master Executive in “Industrial Asset Management”, jointly organized by MIP - Politecnico di Milano and SdM – School of Management of University of Bergamo (10 editions with an overall budget of 2M€)

Since 2001 – Professor of the following courses: Production Management, Operations Management, Supply Chain Management, Factory Layout Planning at the undergraduate and graduate programs of Mechanical Engineering and Management Engineering at University of Bergamo

Since 2000 – Faculty Member of MIP –Politecnico di Milano with lectures at the Executive MBA.

1996 - 2000 – Professor of Automated Production Systems at Politecnico di Milano (Lecco site)

PARTICIPATION TO PHD COMMITTEES

He has been Vice Director of the “*DREAMT - Economics and Management of Technology*” PhD program jointly delivered by University of Bergamo and University of Pavia.

He is (or has been) supervisor of 8 PhD theses, having, as major topics, Industrial Asset Management, Performance Measurement Systems in After Sales Services, Service Engineering, Risk Management in Supply Chains.

Moreover, he has been appointed as PhD discussant by Politecnico di Milano (in 2005 and 2009), by Linkoping Universitat (March 2006, PhD candidate Pontus Johansson), by Strathclyde University (June 2010, PhD

candidate Alia Emad Islam by NTNU Trondheim University (June 2011, PhD candidate Marco Semini), by University of Sevilla (November 2013, candidate Vicente Gonzalez Diaz), by University of Cambridge (July 2013, candidate Rachel Cutbert), by LTU - Technical University of Luleå (December 2013, candidate Alessandro Bertoni).

PARTICIPATION AS REVIEWER OF PROJECT PROPOSALS IN NATIONAL OR INTERNATIONAL RESEARCH PROGRAMMES

2010 – 2013 - *MIUR - Italian Ministry of Research* - Reviewer of project proposals.

2010 - *Israeli Science Foundation (ISF)* - Individual Research Grant Programme - Reviewer of project proposal

2010 - *City University Hong Kong* - Strategic Research Grant - Reviewer of project proposal

2013 - *FCT - Portuguese National Research Agency* – Reviewer and Member of the assessment panel of the “Exploratory Research Projects 2013” Call.

2013 - *Austrian Science Fund (FWF)* - Special Research Programme - Reviewer of project proposal.

PARTICIPATION TO COMMITTEES FOR REVIEW OF APPLICATIONS FOR PROFESSORSHIP

He has been appointed as reviewer for application:

- for full professorship by KING ABDULAZIZ UNIVERSITY (Saudi Arabia) in 2011
- for adjunct professorship by NTNU Trondheim University in 2012
- for associate professorship by LTU - Technical University of Luleå in 2012
- for full professorship by Narvik University College in 2014 and 2015

PARTICIPATION TO SCIENTIFIC ASSOCIATIONS AND REGULATORY BODIES

- Member of *UNI – Maintenance Committee*.
- Member of *IFAC Technical Committee 5.1 on Advanced Manufacturing Technology*.
- Member of *IFIP Working Group 5.1 on Advances in Production Management Systems*.

ORGANISATION OF SCIENTIFIC EVENTS AND PARTECIPATION TO SCIENTIFIC COMMITTEES

- Scientific organizer of the *PALM Doctoral Workshop on Product and Asset Lifecycle Management*, 4-6 june 2012, in collaboration with University of Catania, sponsored by IFIP WG5.7.
- Scientific Coordinator of the *PhD workshops of APMS (Advances in Production Management Systems) Conferences* organized by IFIP WG 5.7 in the editions 2010 (Como, Italy), 2012 (Rodhos, Greece) and 2013 (Penn State, USA).
- Member of *International Scientific Committees* of several conferences: among them the 2011 (Stavange, Norway), 2012 (Rodhos, Greece), 2013 (Penn State, USA) and 2014 (Ajaccio, France) of the *APMS Conference* organized by IFIP WG 5.7, of the *INCOM 2012 Symposia* organized by IFAC TC 5.1, of the *IMS Workshop 2013* (Sao Paulo, Brasil) organized by IFAC TC 5.1, of *IPS2 CIRP 2015 Conference* (St Etienne, France) organized by CIRP.

AWARDS

2006 Award for Supply Chain Academic Excellence from Supply Chain Council.

1997 Fulbright Scholarship 1997/98 for visiting period in USA.

1994 First Prize at the ANIMP National Contest (Associazione Nazionale di Impiantistica Industriale) for the best MSc thesis.