



BANȚA Viorel-Costin



CURRENT POSITION: Lecturer

AFFILIATION/DEPARTMENT: Department of Management Information Systems

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PROFILE

My extensive experience gained within the leading companies I integrated systematically into university teaching. I combine real-world insights with theoretical knowledge to provide students an applied practice-oriented learning experience that reflects real-world business and technological challenges. My academic focus is centred on advancing knowledge in AI and emerging digital technologies ensuring full alignment with the requirements and university curricula.



EDUCATION

Habilitation	2025 – Habilitation title: "Innovation and sustainability in the adoption and adaptation of smart technology-based solutions in the circular economy- a current and future paradigm"
Post-Doc	-
PhD (Doctorate)	2015 – PhD in Mechatronics and Robotics, Faculty of Automation, Computers and Electronics, University of Craiova, Romania. Doctoral Thesis- "Design and development of an e-Metrology class system for tank calibration in the oil industry" 2022 – PhD in Accounting, Faculty of Accounting and Management Information Systems, Bucharest Academy of Economic Studies (ASE), Romania. Doctoral Thesis- "The Impact of Artificial Intelligence on Financial Accounting and Auditing Activities"
Master	2002 – Master in Computer and Information Technology, Faculty of Automation, Computers and Electronics, University of Craiova, Romania
Bachelor	2000 – Engineer in Computers and Information Technology, Faculty of Automation, Computers and Electronics, University of Craiova, Romania

PROFESSIONAL TRAINING

2017 – SAP Course – Introduction to S/4HANA, SAP Fiori, S/4HANA Business Suite, Global Bike- The integrated model company of SAP UA; Hand-On Experience with SAP S/4HANA (Introduction to Navigation and User Experience in SAP Fiori, Sales and Distribution-SD, Material Management- MM, Production Planning- PP, Financial Accounting- FI, Controlling- CO), The digital Transformation of Global Bike- Business Processes in the Digital Transformation, at Karlsruhe Institute of Technology -KIT & University of Applied Sciences Karlsruhe, Germany;

2011 – ITIL Version 3 Foundation Management- APMG International, Bucharest, Romania;

2009 – SAP ECC Course-R/3- Financial Accounting-FI, Procurement, Warehouse Management- WM;

2007 – SAP Basis Course, SAP Development, WebMethods, Architecture of SAP R/3, Oracle database administration, Microsoft Project;

ACADEMIC EXPERIENCE

2015 – Associate Professor at University Politehnica of Bucharest, Romania (SAP courses);
2015 – Associate Professor at University of Craiova, Romania;
2016-2018 – Associate Professor at Bucharest University of Economic Studies, Romania;
2017-2018 – Associate Professor at University of Craiova, Romania;



2018-2021 – Assistant Professor, Faculty of Accounting and Management Information Systems, Bucharest University of Economic Studies;

2021- Present – Senior Lecturer, PhD, Faculty of Accounting and Management Information Systems, Bucharest University of Economic Studies;

Courses taught:

- Business Intelligence
- Management Information Systems
- Strategic Management
- Office Application Technology in Management
- Marketing Projects Automation Tools
- Fundamentals of ERP Implementation
- ERP Systems in Business Management
- Robotic Process Automation for Business Processes
- Digitalization for SMEs
- Audit and Control of Information Systems
- Financial Accounting Information Systems

RESEARCH PROFILE

The research activity focuses on the intersection of enterprise information systems, digital accounting, and data-driven process optimization, with emphasis on technologies that support organizational transformation and managerial decision-making. Core research themes include:

Enterprise Resource Planning (ERP) systems and digital transformation in small and medium-sized enterprises (SMEs), with specific interest in process integration, end-to-end operational visibility, and performance improvement.

Process mining and SAP Signavio Process Intelligence applied to key business workflows such as Order-to-Cash (O2C) and Procure-to-Pay (P2P), enabling the identification of process deviations, bottlenecks, and efficiency gaps.

Artificial Intelligence (AI) and Robotic Process Automation (RPA) in accounting and financial information systems, exploring intelligent automation, anomaly detection, and algorithmic support for audit and control activities.

Data analytics and decision support systems designed to enhance managerial decision-making through the extraction of actionable insights from ERP-generated organizational data.

Software development and digital business applications, including conceptual modeling, implementation and evaluation of systems supporting financial and operational processes.

The research approach is characterized by a combination of empirical analysis, process-driven methodologies, and technology-enabled experimentation, contributing to a better understanding of how integrated information systems reshape enterprise performance and governance in contemporary



digital environments.

LIST OF PUBLICATIONS

List of articles published in peer reviewed journals:

1. Banță, V.C., Cojocaru, D., Moisescu, M.A., Sacala, I.S., 2014, „Software Design for Oil Industry Metrology Systems”, Studies in Informatics and Control, vol. 23 (4), pp. 359-371, 2014 (Philadelphia-based Institute of Scientific Information (ISI) / Thomson Scientific-SCIE (since 2008), Journal Metric Values 2013 - Thomson Reuters Impact Factor: 0,605, Article Influence Score (AIS): 0,084), ISSN 1220-1766, WOS:000346943300006
2. Costetchi, N., Stanescu, A.M., Moisescu, M.A., Sacala, I.S., Banta, V.C., „Focused – liquid enterprise system architecture to support e-health applications”, Vol. 77, Issue 4, pp. 55-68, 2015, University Politehnica of Bucharest scientific bulletin series c-electrical engineering and computer science, ISSN 2286-3540, Indexed: ISI, SCOPUS, Ulrich (ProQuest); Impact factor: 0,05; WOS:000421811300005
3. Popescu Gh., C. R., Banta V.C., "Performance Evaluation of the Implementation of the 2013/34/EU Directive in Romania on the Basis of Corporate Social Responsibility Reports", Sustainability 2019, 11(9), 2531; Impact Factor: 2,592; <https://doi.org/10.3390/su11092531>
WOS:000469518700079
4. Banta V.C., Rindasu, S.M., Tanasie, A., Cojocaru, D., "Artificial Intelligence in the Accounting of International Businesses: A Perception-Based Approach", Sustainability 2022, 14(11), 6632; Impact Factor: 3,889; <https://doi.org/10.3390/su14116632> WOS:000809118700001
5. Sahlian, N.S., Popa, A.F., Banta V.C., Răpan, C. M., Chiriac, S.C.V., "The Value Relevance of Financial Performance and ESG Scores During Tumultuous Economic Periods", Eastern European Economics 2023, Volume 61, Issue 4 (2023); Impact Factor: 1,19; <https://doi.org/10.1080/00128775.2023.2225500>
WOS:001010721400001
6. Banță, V.C., Cojocaru, D., 2014, „Methods, Models and Workflow used in Calibration Oil Reservoirs Software”, Annals of the University of Craiova, Series: Automation, Computers, Electronics and Mechatronics, Vol. 10 (37), No. 2, pp. 1-7, 2013, Editura Universitaria, Craiova, 2014 (CNCSIS code 11 category B+, internationally indexed, starting with 2010, BDI), ISSN 1841-0626
7. Crețu, R.F., Țuțui, D., Banță V.C., Șerban, E.C., Barna L.E.L., Crețu, R.C., "Effects of artificial intelligence-based technologies implementation on the skills needed in the automotive industry – a bibliometric analysis", AMFITEATRU ECONOMIC 2024, Volume 26, Issue 67, Page 801-816; Impact Factor: 0,282; <https://doi.org/10.24818/EA/2024/67/801>, ISSN 1582-9146, eISSN 2247-9104, IDS number C401M
WOS:001289160200007
8. Banță, V.C.; Bunea, Ș.; Țuțui, D.; Crețu, R.F. „Challenges in Information Systems Curricula: Effectiveness of Systems Application Products in Data Processing Learning in Higher Education through a Technological, Organizational and Environmental Framework”. Electronics 2024, 13, 3616. <https://doi.org/10.3390/electronics13183616>, IDSN numer: H5M0A, WOS:001323868000001



9. Banță, V.C.; Sacala, I.S., Bunea, Ș.; Tuțui, D.; Crețu, R.F., Serban, E.C., „Manufacturing Processes in the Era of Industry 4.0. Case Study: Analysis of a System Architecture in Automotive Industry”. STUDIES IN INFORMATICS AND CONTROL 2024, Vol. 23, Issue 3, IDSN numer: J6K5H, WOS:001338136400009
10. Crețu, R.C., Gurban, G., Alecu, I.I., Banta, V.C., Stefan, P., „ANALYSIS OF THE PERCEPTION OF CONSUMERS IN ROMANIA TOWARDS THE USE OF INSECTS AND ARTIFICIAL MEAT IN PUBLIC FOOD”, Source SCIENTIFIC PAPERS-SERIES MANAGEMENT ECONOMIC ENGINEERING IN AGRICULTURE AND RURAL DEVELOPMENT, Volume 24, Issue 3, Page 257-264, Published 2024, Indexed 2025-01-11, Document Type Article, Accession Number WOS:001390217300021, ISSN 2284-7995, eISSN 2285-3952, IDS Number R3A4L
11. Crețu, R.C., Alecu, I.I., Beia, I.S., Banta, V.C., Stefan, P., „RESEARCH ON THE IMPACT OF THE HOSTILITIES IN UKRAINE ON TOURISM IN THE DANUBE DELTA”, Source SCIENTIFIC PAPERS-SERIES MANAGEMENT ECONOMIC ENGINEERING IN AGRICULTURE AND RURAL DEVELOPMENT, Volume 24, Issue 2, Page 391-396, Published 2024, Indexed 2024-07-22, Document Type Article, Accession Number WOS:001264962000042, ISSN 2284-7995, eISSN 2285-3952, IDS Number XX4L4
12. Preda, A. F., Crețu, R. F., Banta, V.-C., Serban, E. C., Oancea-Negescu, M. D., Anica-Popa, A., Crecana, C. D., & Tanase, A. G. (2025). The Interaction Between Sustainable Development and Cultural Infrastructure: An Empirical Analysis of France and Romania in the Era of Smart Technologies and Future Research Directions. *Sustainability*, 17(7), 3063. <https://doi.org/10.3390/su17073063>; *SUSTAINABILITY*; Volume 17; Issue 7; DOI10.3390/su17073063; Article Number 3063; Published MAR 30 2025; Indexed 2025-04-19; Document Type: Article; Accession Number WOS:001465729400001; eISSN 2071-1050; IDS Number 1IJ0E
13. Crețu, RF; Tutui, D; Banta, VC; Serban, EC; Barna, LEL; Crețu, RC. Skills and Competencies Needed to Use the Smart Technologies for Industry 4.0. *SYSTEMS RESEARCH AND BEHAVIORAL SCIENCE*, (2025), DOI10.1002/sres.3144, Accession Number WOS:001423475800001; ISSN 1092-7026; eISSN 1099-1743, IDS Number X2B8B
14. Crețu, RF; Banta, VC; Oancea-Negescu MD; Anica-Popa A; Crecana CD. CHALLENGES IN THE FOOD MARKET AND THE AGENDA OF FUTURE RESEARCH DIRECTIONS IN THE CONTEXT OF SUSTAINABILITY: A BIBLIOMETRIC EXPLORATION. *Amfiteatru Economic*, Volum: 27, nr. 69/2025, ISSN 1582-9146, eISSN 2247-9104, IDS Number 3GW3I, DOI: 10.24818/EA/2025/69/486; WOS:001500039000013
15. Bunea, S; Tuțui, D; Crețu, RF; Banta, VC; SUSTAINABLE ACCOUNTING EDUCATION THROUGH INTERNSHIP. STUDENTS' PERCEPTION ON THE INTERNSHIP PARTNERS' ROLE IN COMPETENCES DEVELOPMENT. *INTERNATIONAL JOURNAL OF MANAGEMENT EDUCATION*, Volum: 23, nr.3, ISSN 1472-8117, eISSN 2352-3565, Article Number 101276, DOI10.1016/j.ijme.2025.101276; WOS:001572399000001
16. Annals of the University of Tg Jiu, Series: Economy, Vol. 05, 2019, ISSN 2344-3685, ISSN-L 1844-7007, Indexed: EBSCO, DOAJ, REPEC

List of papers published in conference proceedings:

1. Banță, V.C., Cojocaru, D., 2017, „Integration of metrology applications in the calibration reservoir suites using SAP Fiori, Portal and Cloud. A study case”. 21th International Conference on System Theory,



Control and Computing Joint Conference SINTES 21, SACCS 21, SIMSIS 21, p302-307, 19 - 21 October 2017, Sinaia, Romania, ISBN 978-1-5386-3842-2, IEEE Catalog Number CFP1736P-ART, ISBN 978-1-5386-3841-5, IEEE Catalog Number CFP1736P-USB, WOS:000427419900048

2. Banță, V.C., Cojocaru, D., 2015, "Enterprise System Based on Customer Integrated ERP Using Enabled Learning Organization in Metrology area", 19th International Conference on System Theory, Control and Computing Joint Conference SINTES 19, SACCS 15, SIMSIS 19, 14-16 October, 2015, Romania
3. Banță, V.C., Cojocaru, D., „Development Center Tool a Software Application for Change Request Management”, 17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17, p42-47, 11-13 October 2013, Sinaia, Romania, IEEE Catalog Number CFP1336P - CDR, Digital Object Identifier: 10.1109 / ICSTCC.2013.6688933, ISBN 978-1-4799-2228-4, ISBN 978-1-4799-2227-7; WOS:000330660500006
4. Banta, V.C., Cojocaru, D., 2019, „Global rollouts – risks and factors that affect ERP solutions in Romania. A case study in the sales and distribution area.”, ICSTCC 2019, 23nd International Conference on System Theory, Control and Computing, October 9 - 11, Sinaia, Romania, DOI: 10.1109/ICSTCC.2019.8885535, WOS:000590181100066
5. Banță, V.C., „KPI Tool – A software applications for monitoring the situation of input data in ERP for accounting department – A study case”, 13th International Conference Accounting and Management Information Systems, p28-43, June, 13-14, 2018, Bucharest, Romania, ISBN 2247-6245, ISSN-L 2247-6245, WOS:000677821500003
6. Banță, V.C., Boldeanu, M.D., "The impediments of an environmental SAP rollout process inside sales and distribution enterprise: Analysis of and lessons learned from the Romanian case", 14th International Conference Accounting and Management Information Systems, pXX-XX, June, 5-6, 2019, Bucharest, Romania, ISBN 2247-6245, ISSN-L 2247-6245, WOS:000493279900037
7. Banță V.C., Tănasie A., Cojocaru D., „ENTERPRISE RESOURCE PLANNING FOR ROBOTIC PROCESS AUTOMATION IN BIG COMPANIES. A STUDY CASE”, 24th International Conference on System Theory, Control And Computing (ICSTCC), Book Series: International Conference on System Theory Control and Computing, Page106-111, Published 2020, Indexed 2021-05-28, Document Type: Proceedings Paper, WOS:000646582900019

List of books & book chapters:

1. Banță V.C., „Introducere în informatica medicală. Teorie și probleme”, Editura Alexandru Ștefulescu, Târgu-Jiu, 120 pag, 1999, ISBN – 973-94470-3-1
2. Banță V.C., „Simulări contabile, modelarea, implementare și gestionarea proceselor economice ale unei organizații prin intermediul unui sistem informatic de tip ERP – SAP – Ghid practic I”, Editura Universitaria Craiova, 250 pag, 2017, ISBN general: 978-606-14-1299-0, ISBN volum: 978-606-14-1326-3.
3. Banță V.C., „Implementarea unui sistem informatic de tip ERP – SAP. Studii de caz. Volumul 1”, Colecția Științe Economice și Administrarea Afacerilor, Nr. 747, 237 pag., Editura SITECH, 2020, ISBN general:



978-606-11-7573-4, ISBN volum: 978-606-11-7574-1.

4. Banță V.C., Dumitru V.F., „Modelarea unor procese economice regasite într-un sistem de tip ERP – SAP. Studii de caz.”, Colecția Științe Economice și Administrarea Afacerilor, Nr. 750, 218 pag., Editura SITECH, 2020, ISBN general: ISBN 978-606-11-7611-3.
5. Banță V.C., Dumitru V.F., „Sistemele informatici integrate: rolul și impactul acestora în procesele de afaceri. Ediție revizuită și adăugită”, Colecția Științe Economice și Administrarea Afacerilor, Nr. 751, 213 pag., Editura SITECH, 2020, ISBN general: ISBN 978-606-11-7612-0.
6. Banță V.C., „Impactul inteligenței artificiale asupra contabilității financiare și a activităților de audit”. Colecția Științe Economice și Administrarea Afacerilor, Nr. 767, 2023, ISBN 978-606-11-8526-9

INTERNATIONAL EXPERIENCE / ACADEMIC ENGAGEMENT

Invited Lecturer – SAP/ERP Business Systems

Eötvös Loránd University (ELTE), Budapest, Hungary

Year/Duration: 2025, 7 days

Delivered invited lectures on SAP-based enterprise systems, contributing to academic collaboration in the field of digital business process integration. The teaching engagement supported knowledge exchange on ERP adoption and data-driven management practices relevant to business and economic education.

Invited Lecturer – SAP Signavio Process Intelligence

Czech Technical University in Prague – Masaryk Institute, Prague, Czech Republic

Year/Duration: 2025, 2 days

Conducted invited teaching sessions on SAP Signavio and process intelligence, with focus on process mining techniques applied to business process optimization. The academic activity strengthened international cooperation in the areas of enterprise digitalization and analytical process management.

Additional International Academic Engagements

Participation in international academic networks, conferences, and discussions related to ERP systems, business information technologies, AI-supported decision-making, and process mining for enterprise transformation. These engagements helped enhance international research visibility and fostered dialogue on emerging socio-economic and technological trends impacting SMEs.

LANGUAGES

English – Understanding (Listening: C1; Reading: C2); (Speaking: Spoken interaction: C1; Spoken production: C1); (Writing: C2)

SKILLS

Research Skills

Applied Research in ERP, AI & Digital Accounting



Conducts research on the integration of ERP systems, Artificial Intelligence, and Robotic Process Automation into economic and financial processes; over 50 scientific publications, including 24 papers in Web of Science-indexed journals.

Context/Examples: publications in International Journal of Management Education (Elsevier), Amfiteatru Economic, Electronics, Sustainability, Systems Research and Behavioral Science, Studies in Informatics and Control, Eastern European Economics.

Process Mining & Data-Driven Business Process Optimization

Advanced analysis of Order-to-Cash and Procure-to-Pay workflows using SAP Signavio Process Intelligence to identify bottlenecks, process deviations, and efficiency gaps in SMEs.

Context: research activities focused on process intelligence and data-driven managerial decision-making (2023–present).

Teaching and Mentoring Skills

University Teaching in ERP and Business Information Systems

Courses taught at undergraduate and graduate level: ERP Systems, ERP Implementation, Information Systems Management, Software Robots for Business Process Automation, Digitalization of SMEs, Financial and Accounting Information Systems.

Context: Bucharest University of Economic Studies & FABIZ programs.

Curriculum Development and Instructional Design

Design of course syllabi, practical learning materials and software-based instructional content for ERP, RPA and accounting information systems.

Context: development of academic resources supporting digital transformation in business education.

Technical and Analytical Skills

ERP Systems, SAP and Business Process Automation

Expertise in the configuration and operational evaluation of integrated information systems, with a focus on SAP-supported business process management.

Context: academic teaching, consultancy, and research in ERP-driven enterprise transformation.

Artificial Intelligence and Robotic Process Automation (RPA)

Application of AI and RPA techniques in accounting, financial auditing and digital process automation.

Context: doctoral research on AI integration in accounting awarded Summa cum Laude.

Software Development and Programming

Competencies in developing business applications for operational and financial decision support.

Context: author/co-author of books in informatics, ERP and applied programming.

Communication and Scientific Dissemination

Scientific Writing, Publishing and Peer Review

Experience in academic dissemination through journals, conferences and collaborative research networks.

Context: involvement in interdisciplinary research contribution and paper review activities.

Management and Strategic Decision Support

Data-Driven Managerial Decision-Making for SMEs



Use of process analytics and intelligence platforms for performance improvement and strategic process redesign in SMEs.

Context: modeling and evaluation of O2C/P2P cycles using SAP Signavio Process Intelligence.