

## Călin-Adrian COMES

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**CONTACT INFORMATION** Department of Financial & Accounting,  
University of Medicine, Pharmacy, Sciences and Technology,  
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**CITIZENSHIP** ROMANIAN

**MANAGEMENT** **University of Medicine, Pharmacy, Sciences and Technology of Tîrgu-Mureş, ROMANIA,**  
Head of Financial-Accounting Department, Faculty of Economics and Law, University of Medicine,  
Pharmacy, Sciences and Technology of Tîrgu-Mureş, ROMANIA, 1 October 2018 - 18 December 2019  
**Petru Maior University, Tîrgu-Mureş, ROMANIA,**  
Head of Financial-Accounting Department, Faculty of Economics, Law and Administrative Science,  
Petru Maior University, Tîrgu-Mureş, ROMANIA, 18 December 2015 - 1 October 2018  
**Sandoz Romania, Tîrgu-Mureş, ROMANIA,**  
Head of IT Department, Tîrgu-Mureş, Romania, 1 July 2002 - 1 July 2004  
**S.C. UNIC SA, Romania, Tîrgu-Mureş, ROMANIA,**  
Head of IT Department, Tîrgu-Mureş, Romania, 1 October 1998 - 1 July 2001

**MEMBERSHIP** Royal Statistical Society (RSS)  
Institute of Electrical and Electronics Engineers (IEEE)  
Regional Studies Association (RSA)  
The Bernoulli Society Section of the International Statistical Institute (ISI)(BS)  
Academy of Management(AoM)  
British Sociological Association(BSA)  
International Society for Ecological Economics (ISEE)  
Romanian National Group of International Society for Clinical Biostatistics (RNG-ISCB)  
European Association of Labour Economists (EALE)  
The Continuous Optimization Working Group of EURO (COWGEURO)  
Society for Probability and Statistics in Romania(SPRS)  
Romanian Research Group for Corporate Finance (RoRGCF)

**EDUCATION** **The Research Institute for Quality of Life, Romanian Academy,** Bucharest, ROMANIA  
Post Doctoral Studies, Cybernetics and Statistics in Economy, June 2014 - September 2015  
Thesis Topic: *Interrelated factors analysis to determine the orbit of social cibernoze*  
Adviser : Prof.univ.dr. Valentina Vasile, Scientific Director at Institute of National Economy, Scientific  
Researcher 1<sup>st</sup> rank, (e-mail: valentinavasile2009@gmail.com; phone: +40-021-318-24-71) Casa Academiei  
- Bucureşti sector 5, Calea 13 Septembrie nr.13, 050711, ROMANIA  
Area of Study: Economics  
**Babeş-Bolyai University,** Cluj-Napoca, CLUJ county, ROMANIA  
Ph.D., Cybernetics and Statistics in Economy, October 2012  
Thesis Topic: *Data Migration in Enterprise Resource Planning Systems*  
Adviser: Professor Ph.D. Nicolae Ghişoiu  
Area of Study: Economics  
B.S., Cybernetics, Statistics and Informatics in Economy Faculty, April 2000  
Major in Computer Science  
Minor in Cybernetics and Statistics in Economy  
License paper: *Integrated Development Enviroment in Tcl/Tk*

TEACHING  
EXPERIENCE

**Associate Professor** October 2014 to present  
Department of Financial & Accounting, Petru Maior University of Țirgu-Mureș  
Lecturer in Econometrics field for Accounting and Management Information System Students - undergraduate  
Lecturer in RDBMS field for Accounting and Management Information System Students - undergraduate  
Lecturer in Web Technologies field for Computer Science Students - undergraduate  
Lecturer in Data Mining field for Financial & Banking Students - graduate  
**University Lecturer** October 2007 to October 2014  
Department of Financial & Accounting, Petru Maior University of Țirgu-Mureș  
Lecturer in RDBMS field for Accounting and Management Information System Students - undergraduate  
Lecturer in Web Technologies field for Computer Science Students - undergraduate  
Lecturer in Data Mining field for Financial & Banking Students - graduate  
**Assistant Professor** October 2003 to October 2007  
Department of Financial & Accounting,  
Petru Maior University of Țirgu-Mureș  
Prepare seminars in RDBMS field for Accounting and Management Information System Students  
Prepare seminars in Web Technologies field for Computer Science Students  
**Teaching Assistant** September 2001 to October 2003  
Department of Financial & Accounting, Petru Maior University of Țirgu-Mureș  
Prepare seminars in RDBMS field for Accounting and Management Information System Students  
Prepare seminars in Visual Programming field for Computer Science Students

RESEARCHER ID

Researcher ID: A-4084-2010 Web of Science, Clarivate Analytics

ORCID

ORCID - Connecting Research and Researchers

GOOGLE -  
SCHOLAR  
CITATION  
PAPERS  
WEB OF SCIENCE  
CLARIVATE  
ANALYTICS

Google - Scholar Citation  
Macroeconomic determinants of remittances: evidence from Romania. Bunduchi, E., Vasile, V., Comes C.-A., Stefan B. Applied Economics, Taylor & Francis, **2019**(Impact Factor JCR 2017: 0.75, AIS; 0.265), Accepted for publication 1 January 2019.  
The National Heritage of Călimani Mountains: Peering Inside Unspoiled Wilderness. Comes C.-A., Popa M.-A. **2019**, 73–81, In: Vasile V. (eds) Caring and Sharing: The Cultural Heritage Environment as an Agent for Change. Springer Proceedings in Business and Economics. Springer, Cham;  
The Impact of Foreign Direct Investments and Remittances on Economic Growth: A Case Study in Central and Eastern Europe. Comes, C.-A.; Bunduchi, E.; Vasile, V.; Stefan, D. Sustainability **2018**, 10(1), 238. (Impact Factor JCR 2017: 2.075) DOI. Times Cited Web of Science - Clarivate Analytics: 1;  
Reducing the bandwidth of a sparse matrix with a genetic algorithm, Petrică Pop , Oliviu Matei, and Călin-Adrian Comes, Optimization - A Journal of Mathematical Programming and Operations Research, Volume 63, Issue 12, **2014**, Taylor & Francis (Impact Factor JCR 2015: 0.936) DOI, Times Cited Web of Science - Clarivate Analytics: 3;  
Lotka-Volterra in Financial Systems, COMES C.A., Procedia Economic and Finance, Volume 3, pp. 251–255, Elsevier, **2012**, Times Cited Web of Science - Clarivate Analytics: 7;  
Data Envelopment Analysis method in Higher Education, COMES C.A., RUS I., MUNTEANU A., NISTOR P., TRIPON A., Proceedings of 6<sup>th</sup> International Seminar on the Quality Management in Higher Education, Pages: 39–42 Published: **2010**.  
Determining students' academic failure profile founded on data mining methods, BRESFELEAN, VP; BRESFELEAN, M; GHISOIU, N; COMES C.A. PROCEEDINGS OF THE ITI 2008 30<sup>th</sup> INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY INTERFACES Pages: 317–322 Published: 2008, Times Cited Web of Science - Clarivate Analytics: 13;

- Data mining clustering techniques in academia, BRESFELEAN, VP; BRESFELEAN, M; GHISOIU, N; COMES, C.A. ICEIS 2007: PROCEEDINGS OF THE 9<sup>th</sup> INTERNATIONAL CONFERENCE ON ENTERPRISE INFORMATION SYSTEMS Pages: 407–410 Published: 2007, Times Cited Web of Science - Clarivate Analytics 4,
- Entity Relationship Stored Procedure Meta Language COMES, CA; RUS, I; GHISOIU, N; et al. PROCEEDINGS OF THE 7<sup>th</sup> INTERNATIONAL CONFERENCE ON APPLIED INFORMATICS AND COMMUNICATIONS Pages: 265–270 Published: 2007, Times Cited Web of Science - Clarivate Analytics 1,
- Schema Mapping for RDBMS, COMES, C.A.; SPATACEAN, IO; STEFAN, D; et al. ICEIS 2008: PROCEEDINGS OF THE 10<sup>th</sup> INTERNATIONAL CONFERENCE ON ENTERPRISE INFORMATION SYSTEMS, VOL DISI Pages: 541–544 Published: 2008,
- A Cost-Volume-Profit model for a multiproduct situation with variable production structure STEFAN, D; STEFAN, AB; SAVU, L; et al. 20<sup>th</sup> INTERNATIONAL CONFERENCE, EURO MINI CONFERENCE CONTINUOUS OPTIMIZATION AND KNOWLEDGE-BASED TECHNOLOGIES, EUROPT'2008 Pages: 349–352 Published: 2008, Times Cited Web of Science - Clarivate Analytics: 2;
- Universal symbolic translator for procedural language over SQL COMES, CA; SAVU, LD; SPATACEAN, IO; et al. ADVANCES ON APPLIED COMPUTER AND APPLIED COMPUTATIONAL SCIENCE Pages: 639–644 Published: 2008,
- Inovative holistic aspects of the activities in a continuous educational center TRIPON, A; COMES, CA; RUSU, C; et al. Management of Technological Changes, Book 1 Pages: 303–308 Published: 2005,
- CONFERENCES Caring and Sharing. The Heritage Environment as an Agent for Change, 29<sup>th</sup> May-3<sup>th</sup> June 2016, Istanbul, Turkey
- SCMR-JEMS 3<sup>rd</sup> ANNUAL CONFERENCE, March 16<sup>th</sup>, 2016, Sussex Centre for Migration Research Chichester 1 lecture theatre, University of Sussex, Brighton, UK
- 9<sup>th</sup> International Conference on Computational and Financial Econometrics (CFE 2015), University of London, UK, 12-14 December 2015.
- Heritage as an alternative driver for sustainable development and economic recovery in South East Europe, Potenza, Basilicata, Italy, 11-14, April 2014,
- GIKA 2013 Global Innovation and Knowledge Academy 2013, Valencia, Spain, 9-11 July, 2013
- 10<sup>th</sup> EUROPT Workshop on Advances in Continuous Optimization, Lithuania, Sialuai, 4-7 July, 2012
- 10<sup>th</sup> International Conference on Enterprise Information Systems, Barcelona, Spain, 12 - 16, June 2008
- 7<sup>th</sup> International Conference on APPLIED COMPUTER & APPLIED COMPUTATIONAL SCIENCE, Hangzhou, China, 4-11, April 2008,
- 7<sup>th</sup> International Conference on Applied Informatics & Communication, Vouliagmeni, Athens, Greece, 24-26 August 2007,
- Models 2006 Doctoral Symposium, ACM/IEEE 7<sup>th</sup> Models2006, Genova, Italia 1-6 October 2006,
- Models 2005 Doctoral Symposium ACM/IEEE 6<sup>th</sup> Models2005, Montego Bay, Jamaica 2-7 October 2005,
- 4<sup>th</sup> International Conference on Management of Technological Changes, Chania, Greece, 2005.
- CONFERENCE POSTERS Comes, C.A., and Ghişoiu N. Database Diagrams with OCL. In: *ACM / IEEE 8<sup>th</sup> International Conference on Model Driven Engineering Languages and Systems*, Half Moon Resort, Montego Bay, Jamaica, October 2-7, 2005. Poster abstract.
- Comes, C.A., Complete Constraint Language In: *ACM / IEEE 9<sup>th</sup> International Conference on Model Driven Engineering Languages and Systems*, Genoa, Italy, October 1-6, 2006. Poster abstract.
- OTHER PUBLICATIONS SCOPUS INDEX Comes C.A., Ghişoiu N. *Business Process Management with Unified Modeling Language*. Proceedings of the 5<sup>th</sup> Int. Conf. on DATA NETWORKS, COMMUNICATIONS & COMPUTERS, Bucharest, Romania, October 16–17, 2006. Times Cited: 7, IEEE and ACM

GUEST EDITOR	<p><i>Valentina V., Comes C.A., Stefan A.-B., Munteanu A. Procedia Economics and Finance, Elsevier, 2014, Vol 32 Editorial EMQFB2014</i></p> <p><i>Stefan D., Muntean A., Stefan A.-B., Nistor P., Comes C.A. Procedia Economics and Finance, Elsevier, 2013, Vol 15, Editorial EMQFB2013</i></p> <p><i>Stefan, D., Comes C.A. Procedia Economics and Finance, Elsevier, 2012, Vol 3, Editorial EMQFB2012.</i></p> <p><i>Bogdan M., Comes C.A., Stefan D., Weber G.-W. Optimization, Taylor &amp; Francis , 2014, Vol 63-12 Editorial Optfin2012.</i></p>
BOOK	Comes C.A. , Stored Procedure Migration in ERP Systems, Editura Lambert Academic Publishing, ISBN-13: 978-3-659-51290-2, ISBN-10:3659512907 Stored Procedure Migration in ERP Systems
BOOK IN PREPARATION CHAPTERS IN BOOKS	<p>Comes C.A. Caeteris Non Paribus</p> <p>Comes C.A., Bresfelean P.V., Social Networking Analysis of ReCADD with Petri Nets, 25-33, Cambridge Scholars Publishing, ISBN 978-1-4438-4425-3.</p> <p>Bresfelean P.V., Bresfelean M., Comes C.A. Decision trees an clusters: An Analysis of Student's Activity on the Romanian Labour Market, pp 29-37, Cambridge Scholars Publishing, ISBN 978-1443843348.</p>
GRANTS	<p>Digital Transformation in the Danube Region</p> <p>Start date 01-01-2017 : End date 30-06-2019, Budget Overall: 2106825,97 EUR National Council for Scientific Research in Higher Education</p> <p>Universal symbolic translator for procedural language over SQL, Grant CNCISIS nr. 124 PN II - RU - MC/2008 , 2008, 2000 EUR</p> <p>Petru Maior University of Tirgu-Mures, PhD GRANT 2005, 1000 USD</p>
RESEARCH PROJECT	<p><b>Clubs Network for Adaptability and Sustainable Development</b>, Tirgu-Mures, MURES county, ROMANIA, <a href="http://www.recadd.ro">http://www.recadd.ro</a></p> <p><i>IT Project Manager</i> <b>October 2009 to June 2011</b></p> <p>Implement, Design and Maintain educational/social portal for Sustainable Development in FSE POS-DRU 39/3.2/G/37787 EUROPEAN GRANT. 500 000 EUR, Project Manager Ph.D. Avram TRIPON. <b>STUDIA UNIVERSITATIS PETRU MAIOR SERIES OECONOMICA ISSN:1843-1127</b>, Tirgu-Mures, MURES county, ROMANIA, <a href="http://oeconomica.upm.ro">http://oeconomica.upm.ro</a></p> <p><i>Site Administrator, Web Administrator</i> <b>October 2007 to present</b></p> <p>Implement, Design and Maintain the STUDIA UNIVERSITATIS "Petru Maior" SERIES OECONOMICA journal site. <b>Emerging Markets Queries in Finance and Business</b>, Tirgu-Mures, MURES county, ROMANIA, <a href="http://www.rorcf.ro">http://www.rorcf.ro</a></p> <p><i>Site Administrator, Web Administrator</i> <b>February 2012 to present</b></p> <p>Implement, Design and Maintain the EMQFB2012, EMQFMB2013 sites. <b>Optimization in Finance OPTFIN2012 WORKSHOP</b>, Tirgu-Mures, MURES county, ROMANIA, <a href="http://optfin2012.upm.ro">http://optfin2012.upm.ro</a></p> <p><i>Site Administrator, Web Administrator</i> <b>May 2012 to present</b></p> <p>Implement, Design and Maintain workshop site.</p>
PROFESSIONAL EXPERIENCE	<p><b>SC SANDOZ ROMANIA S.R.L</b>, member of NOVARTIS group, 7A, Livezeni Street, Tirgu-Mures, zip: 540472, MURES county, ROMANIA</p> <p><i>IT Project Manager</i> <b>June 2002 to June 2004</b></p> <p>Manage the IT Department (4 members)</p> <p>Manage the IT Infrastructure (ITIL)</p> <p>IT Project Manager in SAP R/3 Implementation (FI, CO, MM, SD, PP)</p> <p>Manage the acquisition for IT Infrastructure(Hard, Soft)</p> <p>Manage the implementation for Standard Operation Procedures, GMP, FDA, ISO 9001</p> <p><b>SC AZOMURES SA</b>, 300, Gheorghe Doja Street, Tirgu-Mures, MURES county, zip: 540237, ROMANIA</p>

*IT Analyst*

**June 2000 to September 2001**

Design, Implement, Maintain MIS application over SAP R/3;

Implement the Standard Operation Procedures, TUV, ISO 9001.

**SC UNIC S.A.**, member of Broad Hurst group, 54, Trandafirilor Square, Tirgu-Mures, MUREȘ county, ROMANIA

*IT Manager*

**October 1998 to June 2000**

Analyze, Implement, Maintain the integrated software application -pre ERP from SC UNIC SA (Windows 9x /Linux (Informix SE))

Manage the IT Infrastructure (ITIL).

#### QUALITY

MANAGEMENT IN  
HIGHER  
EDUCATION

Director of the Quality Assessment Commission within the Department of Finance and Accounting at the Faculty of Economic, Legal and Administrative Sciences of "Petru Maior" University of Tirgu Mures, responsible for checking and ensuring the quality of the study programs of the department: Accounting and Management Informatics , respectively Finance and Banking.

#### TECHNICAL SKILLS

MATLAB, SPSS, R, S, GRETL, WEKA experience: linear algebra, Fourier transforms, nonlinear numerical methods, polynomials, statistics,  $N$ -dimensional filters, visualization, data mining, time series(AR, MA, ARMA, ARIMA, ARMAX, ARCH, GARCH)

Programming: C, C++, C#, Java, JavaScript, HTML4, HTML5, CSS, SVG, Perl, PHP, UNIX, shell scripting.

Computer Applications:  $\text{\TeX}$  ( $\text{\LaTeX}$ ,  $\text{\BibTeX}$ ), dvi2ps, ps2pdf, most common productivity packages(for Windows, Mac OS X, Solaris, and Linux platforms), vi, pico, Vim, MS Office, OpenOffice, Lotus Suite.

Operating Systems: Microsoft Windows family, Apple Mac OS X, Linux, BSD, Solaris, and other UNIX variants.

#### AWARDS

Awarding of research results - [National Council for Scientific Research in Higher Education, Romania](#) for article: Reducing the bandwidth of a sparse matrix with a genetic algorithm, Petrică Pop , Oliviu Matei, and Călin-Adrian Comes, Optimization - A Journal of Mathematical Programming and Operations Research, Volume 63, Issue 12, 2014, Taylor & Francis (Impact Factor JCR 2015: 0.936)

#### PEER-REVIEW

ACTIVITY FOR  
INTERNATIONAL  
PROJECTS  
H2020  
EUREKA

Horizon 2020, European Commission, Research Executive Agency, Marie Skodowska-Curie Individual Fellowships EXPERT CONTRACT, CONTRACT NUMBER - CT-EX2013D159448-101 Number of Proposals evaluated remotely (IERs) -8, Number of Consensus Reports finalized -8

PNCDI III, Subprogramme 3.5, EUREKA Network/ EUREKA Clusters 2016 Evaluator in projects with ID's PN-III-P3-3.5-EUK-2016-0022 PN-III-P3-3.5-EUK-2016-0011

#### REFERENCES

AVAILABLE TO  
CONTACT

Prof.univ.dr. Valentina Vasile, [Scientific Director at Institute of National Economy](#), Scientific Researcher 1<sup>st</sup> rank, (e-mail: [valentinavasile2009@gmail.com](mailto:valentinavasile2009@gmail.com); phone: +40-021-318-24-71)

Casa Academiei - București sector 5, Calea 13 Septembrie nr.13, 050711, ROMANIA

Ph.D. Daniel Stefan, [Associate Professor](#), (e-mail: [daniel.stefan@ea.upm.ro](mailto:daniel.stefan@ea.upm.ro); phone: +40-745-34-55-64)

Nicolae Iorga, 1, Tirgu-Mures, 540088, MURES County, ROMANIA

Ph.D. Vasile Paul Bresfelean, [University Lecturer](#), (e-mail: [bresfelean@yahoo.com](mailto:bresfelean@yahoo.com); phone: +40-745-85-77-26)

Babes-Bolyai University, Faculty of Economics and Business Administration, Cluj-Napoca, ROMANIA