

## CURRICULUM VITAE

Name: STANCULESCU ADRIAN

Place of birth: Bucharest

Studies:- engineer diploma from The Polytechnic University of Bucharest, Electronics and Telecommunications Department

- Ph.D. (magna cum laudae) in computational intelligence, from The Polytechnic University of Bucharest, with the thesis "*Contributions to the development of neural networks*" (1999) – High relevance for Advanced Analytics (Data Science, Data Mining)
- Management – Diploma in "*Project Management*" from the High School for Management (affiliated with The Polytechnic University of Bucharest - curriculum from Technische Universitat Darmstadt) –2003; similarities with MBA

Civil status: married; a son

Certifications - "Foundation Certificate IT-Service Management"- ITIL by EXIN (Examination Institute for Information Science" - Exam number 885833 (2006)

- "Computing Foundations" – IEEE (2013)
- SAP "Business Intelligence" (2014) – Certificate ID: 0012455523

Affiliation – IEEE affiliated member (Computer and Computational Intelligence societies)

Contact: mobile phone 0723252473

e-mail adrian\_ioan\_stanculescu@yahoo.com

Foreign languages: English (very well), French (very well), Russian (medium)

Work experience (relevant excerpts)

- **2018 (May) – Study for a Telecom company –**
  - How to use Apache Spark, Cassandra –NoSQL Database-, TensorFlow (for Neural Networks), Python for an AI architecture
- **2016 – 2018 SAP - Major Incident Manager (Cloud Computing), Data Analyst tasks –**
  - Manage Cloud incidents resolution
  - Construct a MIM Knowledge Base; build an incident classification relying on IT architectural classes (decision tree)
  - Optimize resolution time
- **2015 – Consultancy Performance & Risk Management –**
  - R programs for Data Mining: Decision trees, Regression, Time Series, K-Means, Apriori like, Principal Component Analysis, Survival analysis applicable for Forecasting, Classification, Clustering, Association Detection, and Anomaly Detection etc.

- **2014 – SAP Academy –**
  - SAP: Data warehouse
  - Implement Data Mining algorithms
  
- **2013 (till summer 2013) – SAS Analytical Solutions SRL – solution architect, Data Scientist tasks –**
  - Data Warehouse architecture design for a big commercial bank
  - Design peculiar data mining applications based on SAS Enterprise Miner using SEMMA methodology
  - Upgrade credit scoring with survival analysis (based on Kaplan Meier method) and afterwards extend to campaign management
  - SAS Achitecture activities
  
- **2002-2012 Erste - Romanian Commercial Bank, (IT Enterprise Architecture supervisor, IT system architect, Data Scientist Tasks)**
  - Team coordinator to establish IT Strategies and IT Roadmaps for Erste-BCR
  - Build IT Roadmap for running projects to implement IT strategy
  - Set-up principles to govern IT architecture and subsequent scoring method (with KPIs) for IT projects relying on these principles
  - Define a framework for IT Enterprise Architecture
  - Define IT Enterprise Architecture management process and approach (in an Erste TOGAF inspired environment)
  - Data Warehouse design; ETL tasks; Framework for Campaign Management and CRM
  - Choose Data Mining algorithms (IBM – SPSS Modeler)
  
- **1999-2002 National Bank of Romania, Manager of IT Department**
  - Work out an IT strategy for the optimal usage of available resources
  - Achieve a practical implementation of a *Management Information System* (a datamart for Foreign Exchange market)
  - Manage development of new IT systems
  - Implementation of an accounting system specific for a central bank
  - Enrich the range of Intranet based services
  
- **1990-1999 associated lecturer at The Polytechnic University Bucharest (Pattern Recognition and Artificial Intelligence)**
  - information transmission theory; decision theory (advanced statistics)
  - algorithms for pattern recognition (data mining)
  - propose and supervise student projects (e.g. pattern classification with a Kohonen network – neural network version of K-means)
  
- **Relevant research experience at the Institute for Computers (ITC) (before 1999) positions: project manager, senior research engineer**

Main activities in ITC:

- lead some research teams for achieving scientific projects related to usage of artificial intelligence knowledge and methodology for decision support; original C++ written code for neural networks (generalization ability, optimize architecture for recurrent NN, adaptable learning rate, feed-forward NN, Ridge Polynomial NN, Gaussian NN, Project Pursuit NN) used for projects:

- ✓ “Information system built with neural networks for modeling and forecasting with applications in economy and finance”
- ✓ “Applications of modeling with neural networks”
- ✓ “Models for structures with neural networks and their simulation” (infancy stage; now such tools evolved to CNTK - Microsoft Cognitive Toolkit)
- participate and afterwards keep leading positions at projects designing a multiprocessor system and an arithmetic system
- take part at the design and construction of a 32 bits-minicomputer, VAX compatible, where I achieved the implementation of floating point instructions; as a result of this activity I hold the **Patent RO 98369**

### **Courses**

- “Intelligent Technologies and Soft Computing”- 1995 from Black Sea University, diploma awarded by Prof. Dr. Bernd Rausch - Dortmund University- and Prof. Dr. Hans-Jurgen Zimmerman -RWTH Elite-
- Oracle University – 2005 “Data Warehousing Fundamentals”
- Oracle University – 2005 “Data Warehouse and Database Design”
- Oracle University – 2006 “Data Warehouse administration”
- SAS Institute – 2013 “SAS Architecture”
- SAS Institute – 2013 “BASE Programming”
- SAS Institute – 2013 “Data Integration”
- SAP Academy – 2014 TBW10 - BW - Enterprise Data Warehousing
- SAP Academy – 2014 TBW20 - BW - Reporting and Query Design
- SAP Academy – 2014 TBW41 - BW - Extraction with UDI and XI and APD e-learning
- SAP Academy – 2014 TBW42 - BW - Advanced Enterprise Data Warehousing and Reporting
- SAP Academy – 2014 TBW45 - BW - Integrated Planning
- SAP Academy – 2014 BOW310 – Web Intelligence: Reporting with Business Objects

## LISTA DE LUCRARI – Adrian Stanculescu

- [1] “A Hastening adaptive training algorithm for recurrent networks used for forecasting” Neural Network World vol.6, No.3, pp387–391, 1996, (work presented at The IEEE Workshop on Computational Intelligence, Prague 1996)
- [2] “An Optimizing Procedure for Recurrent Neural Networks Used for Forecasting” Neural Network World, vol.8, No.2, pp191-200, 1998 (work presented la the 6-th International Workshop PASE `97-Marienbad)
- [3] Patent RO 98369  
“Metodasi dispozitiv pentru transformarea unui numar normalizat sau a unui numar binar intr-un numar in virgula mobilanormalizat” (that is “Method and device for transforming a unnormalized or binary number into a normalized floating point number”)
- [4] “A method for finding the optimal structure of a Projection Pursuit Neural Network”, Proceedings of the 11-th International Conference on Control Systems and Computer Science, vol.II, pp826-830, The Polytechnic University of Bucharest May 1997
- [5] “How to quantify the generalization ability of neural networks used for forecasting” Buletinul Stiintific al Universitatii Politehnice din Timisoara, Tom 43(57), Fascicula 2, vol.I, p227-232, 1998
- [6] “Evaluating the generalization ability of neural networks used for forecasting” Proceedings of the International Conference on Automation and Quality Control, p.A588-A593, Cluj-Napoca, 28-29 May 1998
- [7] “A method for optimizing the architecture of simple recurrent neural networks” Proceedings of The 3-rd International Symposium of Economic Informatics, pp826-830, May 1997 Bucharest
- [8] “An Optimal Training Algorithm for Ridge Polynomial Networks” - Buletinul Stiintific al Universitatii "Politehnica" Timisoara Tom 41(55), Fascicula 1, vol.1, pp8-13, September 1996
- [9] “Using a dynamically adapted learning rate for gaussian networks” - Proceedings of A'96-Theta 10 Automatic Control and Testing Conference, pp201-206, Cluj-Napoca, May 1996
- [10] "A neural network prediction system in an open system environment" Proceedings of ROSE 94`, The 2-nd Conference on open systems, pp122-126, Bucharest 1994
- [11] “Testare si diagnosticarea automate pentru un calculator de capacitate medie-mare” volumul Prima Conferinta nationala de electronica, telecomunicatii, automatica calculatoare, Bucuresti 1982 (that is “Automatically testing and diagnosis for a mainframe” – the First National Conference on Electronics, Telecommunications, Automation and Computers)
- [12] coauthor “Computer modeling of one solid state device” in Proceedings of the 12-th European Microwave Conference, Helsinki 1982 (student research)
- [13] coauthor “Efficient modeling of high frequency semiconductor devices” in Proceedings of the Seventh Colloquium on microwave communication, Budapest 1982 (student research)

### Management

- [14] “Asupra arhitecturii informatice a unei intreprinderi” – suplimentul “Economieteoretica si aplicata” al publicatiei “Economistul” nr.1704/13.09.2004

(that is “On the IT architecture of an enterprise” – promoting Enterprise Architecture concept)